

MLIS-1

**पुस्तकालय, सूचना एवं ज्ञान प्रबंध
(Library, Information and Knowledge Management)**

Madhya Pradesh Bhoj(Open) University, Bhopal

(Cover Page)

पुस्तकालय, सूचना एवं ज्ञान प्रबंध
(Library, Information and Knowledge Management)

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पाठ्यसामग्री निर्माण

संपादक डा0 संजीव सराफ, डिप्टी लाइब्रेरियन, काशी हिन्दू वि0वि, वाराणसी

इकाई लेखक

खंड-1

इकाई-1	डा0 देवेन्द्र सिंह राजपूत, सागर
इकाई-2	सुप्रिया शुक्ला, जबलपुर
इकाई-3	डा0 देवेन्द्र सिंह राजपूत, सागर
इकाई-4	डा0 देवेन्द्र सिंह राजपूत, सागर

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- 10 fo"̄k; i d̄s̄k (Introduction)
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10 fo"̄k; i d̄s̄k (Introduction)

Kkukt̄z dk i fke I ki ku I p̄uk ḡa dkbz Hkh v/; ; u] vuq̄ akku v̄s̄ fodkl I p̄uk ds vHkk̄o ea I Qyrk v̄s̄ I kfk̄d ughaḡs̄ I dr̄k̄A or̄z̄ku vk/k̄ud I ekt ds i R; d {ks= vkfk̄d] I kek̄fd] I kd̄fr̄d] v̄s̄] k̄s̄xd] fp̄fdRI k] d̄f"̄k i ks̄] k̄s̄xdh vkfn I Hkh dk vk/k̄j I p̄uk ij fuHk̄j dr̄k̄ ḡa bl ds vHkk̄o ea i x̄fr I EHko ughaḡa I p̄uk dh vo/k̄j.kk ds I ekukFk̄z vU; vo/k̄j.kk, W/t̄s̄ & MkV̄k] food] c̄f]] n{kr̄k] Kku v̄s̄ i Kk vkfn iz ks̄ ea vkrs̄ ḡa ftudk i Hkk̄o I p̄uk ij i M̄rk̄ ḡs̄ ; | fi ; s I p̄uk ds i ; k̄z okph ekus tkrs̄ ḡs̄fdUr̄q; s I p̄uk ds i j̄d ; k I g; ks̄h rRo ekus tk I dr̄s̄ ḡa Kku ds i fj {ks= ea I p̄uk , d rRo ḡs̄ tks̄fd I h fo'ks̄k rF; v̄Fkok fo"̄k; I s I EcfU/kr gl̄rh ḡs̄ v̄s̄̄ ekuo I d̄ k̄ku ds fodkl

ds {ks= ea bl ds l Ei \$k.k l s i xfr vksj fodkl dh l EHkkouk, W/c<rh gA ; gkW
, d s fo"k; ka dk v/; ; u fd; k x; k gSftuea l p uk , d eny dlnz gkrk gA bl
i d kj l p uk] , oam l ds l Hkh i {kka dk v/; ; u d jrs gq buds varl ECU/kka vksj
ryukRed egRo] i d fr] i d kj vksj fo"k; {ks= dh ppkz d j s A

1-1 mnas; (Objectives)

bl bdkbz dk mnas; l p uk dh vo/kkj.kk] egRo] i d kj] xqk , oa {ks=ka l s
i f j p r d j k u k g A bl ds v/; ; u ds m i j k U r v k i f u E u f y f [k r f c U n q / k a i j
l e f p r t k u d k j h i k l r d j l d x %

& l p uk vksj Kku dh vo/kkj.kk] i f j H k k " k k v k s i d f r d k s l e > l d x j

& x b f k k y ; , o a l p u k l o k v k a d s f o ' k s k l a n H k z e a l p u k d h m i ; k s x r k l s i f j p r
g k s l d x j

& l p uk ds f o f H k U u i d k j k a d h t k u d k j h i k l r d j l d x j

& l p uk dh f o ' k s k r k v k a v k s x q k k a l s i f j p r g k s l d x j

& x b f k k y ; , o a l p u k l o k v k a d h i f d z k , o a { k s = d k s l e > l d x A

1-2 l p uk dh i f j H k k " k k (Definition of Information)

f o f H k U u l k f g R ; L = k r k a d s v / ; ; u v k s j f o o p u d s v k / k k j i j ; g f u " d " k z
f u d y r k g S f d l p u k d h d k b z H k h l o z k U ; l k o H k k s e d i f j H k k " k k u g h a g A ; | f i
v u d f o } k u k a u s v i u s f o p k j l s l p u k d k s i f j H k k f " k r f d ; k g A b l b d k b z e a
f o f H k U u i f j H k k " k k v k a d k f o ' y s k . k k R e d v / ; ; u v k s j l e h { k k , a i L r q d h x b z g A

¼½ o j f l x r f k u s f y a x (Wersing and Neveling)

o j f l x r f k u s f y a x u s l p u k d s N % v f H k x e f u : f i r f d , g A

¼½ l j p u k R e d v f H k x e

bl v f H k x e d s v l u r x h l p u k f o ' o d h l j p u k d s v l u r x h g k s h g S v f k o k
H k k s r d m n a s ; k a d s e / ; L f k k ; h l E c U / k g k r s g A f t U g a v u d k o f d ; k H k h t k
l d r k g S v k s j u g h a H k h A

½½ K l u v f H k x e

bl vfhkxe ea Kku dks vfhkfyf[kr fd; k tkrk gš tksfd fo'o dh I j puk
dscksk ds vk/kkj ij fufeŕ fd; k tkrk gš bl vfhkxe dks Lohdkj ugha fd; k
x; k D; kŕid bl ea Kku vksj I puk in dks i ; kž okph ekuk x; k gš

13½ I ns̄k vfhkxe

; g vfhkxe I ns̄k I p̄kfjŕ djus ds fpUgka I s I EcfU/kr gš bl ds vŭrxŕ
I puk dks fdl h Hkksŕd vk/kkj ij fpUgka vkfn ds : i ea vfhkfyf[kr fd; k
tkrk gš ftl s ys tk; k tk I drk gš ; g vfhkxe dŕy I p̄kj ds xf.krh;
I p̄kj fl) kŕ ea mi ; ksx ea vk I drh gš

14½ vfhki k; vfhkxe

bl vfhkxe ds vŭrxŕ , d I ns̄k dh vFkz i wkz fo" k; oLrq dks I p̄kj ds : i
ea Lohdkj fd; k tkrk gš

15½ i Hkko vfhkxe vFkok i ki d ijd vfhkxe

bl vfhkxe ds vuŕ kj I puk , d i fdz k gš tksfd dŕy , d fof' k" V i Hkko
ds : i ea mRi Uu gksrh gš

6- i fØ; k vfhkxe

bl vfhkxe ds vuŕ kj tc dksz I eL; k rFk egRoi wkz vkadMs ekuo eflŕ" d
ea I kFk&I kFk vkrs gš rks i fØ; k Lo: i I puk mRi Uu gksrh gš
mi ; Ŧr vfhkxeka ds I kj Lo: i ge dg I drs gš fd I puk , d I kelftd
i fØ; k gš vr% bl s I puk vko' ; drk ds : i ea i fjHkkf"kr fd; k tk I drk gš

16½ cŕYdu (Belkin)

cŕYdu us I puk foKku dsfy, I puk dh vuŕka/kkj.kkvka dk foLŕŕ v/; ; u
djus ds i'pkr I puk dh i fjHkk"kk vksj vo/kkj.kk ea vŭrj Li"V fd; k gš
cŕYdu ds vuŕ kj fdl h vo/kkj.kkk ds rF; kRed fopkj i {k dks Lohdkj djds
mi ; Ŧr vo/kkj.kk i Lŕŕ dh tk I drh gš blgkaus I puk vo/kkj.kk gsrq vfhkxe
ds rhu fl) kŭr i fri kfnr fd, gš &

1- fof/k I EcfU/kh & vo/kkj.kk dh mi ; ksxrk ds vk/kkj ij

2- 0; ogkfjd fl) kŕ& ftl ds vŭrxŕ vo/kkj.kkk dk vkHkl i rhr gš

3- **ifjHk'kr** Red& vo/kkj.kk ds l mHkZ ea iz, ksx fd; k tkrk gA

mijkdR fl) kUrka ds vk/kkj ij vkb vko'; drkvka dk fu/kkj.k fd; k x; k tks
l puk foKku gsrq l xr dk; Zkjh l j puk dk fodkl dj l drs gA

& l puk dks mnas; i wkj vFkz wkz l pkj ds l Ec/k ea i Lrq fd; k tkuk pkfg, A
& l puk ekuoh; l Ecu/kka ds vUrxzr l kekftd l pkj ifO; k ds : i ea i Lrq
dh tkuh pkfg, A

& ekkk vFkok vko'; drk ds vuq kj mi yC/k dj; k tkuk pkfg, A

& l puk dk ikid ij i Hkko gksuk pkfg, A

& l puk vksj l puk mRiknd rFkk ikid ds e/; l Ecu/k LFkkr gksuk pkfg, A

& l puk dks i Hkko cukus gsrq fofHku ek/; eka dk mi ; kxA

& l puk dks 0; fDrxr gksus ds l kFk&l kFk l koZfud Hkh gksuk pkfg, A

& l puk ds i Hkko dks Hkfo"; ds fu.kz gsrq mi ; kx ea ykuk pkfg, A

¼ ½ esiyi , oa esi QHYM (Machlap & Mansfield)

bu nksuka us l puk dks Kku l s fHku ekurs gq ifjHk'kr fd; k gA buds
vuq kj &

& l puk [k.M] vdk] Hkx vksj fo'ksk g\$ tcfD Kku l j pukRed] l q xr rFkk
l koHkSed gA

& l puk l e;c) vYidkyhu l EHkor% ; gkwr fd {k.kHkagj gksh g\$ tcfD
Kku dk viuk vLrRo gsrk gA

& l puk l ns'k dk idkg g\$ tcfD Kku , d ogn HkMkj g\$ tks ml idkg dk
ifj.kke gsrk gA

¼½ cy dk vfhkxe (Bell's Approach)

l puk ds l Ecu/k ea Msu; y cy us , d fHku nf"Vdksk i Lrq fd; k gA budk
dFku g\$ fd l puk , oa 0; ki d vFkz ea rF; ka dk fo'y'sk.k gksh gA rF; ka dk
l dyu] i q i kZlr vksj ifO; kdj.k l Hkh vkfFkd vksj l kekftd fofue; ds
l d k/ku cu tkrs gA bl ds vUrxzr fuEu fcUnq l fEefyr gkrs g%

& vfhkys[kka dk Ms/k id d dj.k% oru vfhkys[k 'kkl dh; l kekftd l j {kk l s

- I EcfU/kr vfhky[*k*] cđ Dyh; jđl vkfnA
- & Mskcd % bl ds vŭrxŕ tul đ; k I EclU/kh vkadMs ekdŭ 'kksk] tuer vksj puko fo'yŕk.k vkfn I s I EcfU/kr vkadMs vkrs gđ
- & vuđ ph gsrq Msk id ŭdj.k% bl ds vŭrxŕ ok; q I ok] jsy I ok vj{k.k] mRiknu vuđ ph rkfydk fo'yŕk.k] iyŕ[k forj.k vksj bl h idkj ds vŭ; A

3-2-5 xđFky; ,oa I puk foKku ds I kfk ikl đxdrk

xđFky; ,oa I puk dđnz I nđ I s I puk vksj Kku I s I EcfU/kr jgs gđ budk mnas; fofHku idkj ds MkVkj I puk vksj Kku dks fofHku ek/; eka }kj k I Ei ŕk.k djuk gđ ; sfcuk fdl h HknHkko ds ekkk vksj vko'; drkuđ kj I puk vFkok Kku miyC/k djkrsgđ bl idkj MkVkj I puk vksj Kku ds I kfk budh ikl đxdrk I nđ I s gđ vksj jgsxA xđFky; vksj I puk oŕkfudka dk eq; I EclU/k I puk ds cks) d varŕo"ka dks I Ei ŕ"kr vksj LFkkukUrfjr djus dh idz k ea fufgr jgrk gŕft I s mPpLrjh; xqkkRed I ok miyC/k djkbz tk I dđ

1-3 I puk dh idfr (Nature of Information)

- fofHku fo"kaftuea I puk varfuŕgr jgrh gŕmuea bl s fHku&fHku idkj I s foŕpr fd; k tkrk gđ I puk dh idfr ; g gŕfd og I Ei wkz Kku ifj {ks= ea , d rRo gđ MkVkj I puk Kku vksj iKk , d gh jpuk ds yxkrkj Hkkx gŕ vksj , d nŕ js dks I e) djus ea I gk; d gkrsgđ MkVk I s I puk] I puk I s Kku vksj Kku I s iKk dk Lrj Åpk gkrk gđ iR; đ dk ifj.kke bl ds fŐ; kŭo; u ij fuHkj djrk gŕ vksj buds e/; dkbz Li"V I hek js[kk ugha gkrh gđ vusdka , d segRo iwkz fo"ka; gđ tks I puk dks varfuŕgr djrs gđ vksj I puk ds eq; Hkkx I s I Ec) gkrsgđ , d s dŕ idđk fo"ka; fuEufyf[kr gŕftuea I puk dh idfr dks Li"V : i I s I e>k tk I drk gđ
- & byđVhdy bŭthfu; fjæ tŕ s 'kŭu ds I puk fl }kŭr ds vŭrxŕ 'kksj ek/; eka ij I đsra dk id kj.k]

- & dEl; Wj i kS| kfxdh ds vUrxZr I puk i fØ; kdj.k] I æg.k , oa i qikflr]
 - & HkkSrd foKkuka ds vUrxZr I puk dks i nkFkZ vkSj ÅtkZ ds I eku I kj ekuk tkrk gS
 - & tho foKkuka ds vUrxZr thfor i kf.k; ka ea I puk dk i fdz kdj.k]
 - & I ekt foKkuka ds vUrxZr I puk , oa Kku dk I ekt 'kkL= vkSj vFkZ kkL=A buea I puk dks , d I d k/ku vkSj vkfFkZd I E i nk dgk x; k gS]
 - & xBfFky; , oa I puk foKku ds vUrxZr ijEijxR 0; kogkfjd dk; kZ , oa uohu vk; keka ; k n'kkvka ds vUrxZr I puk iz kky; ka , oa I okvka ea I puk i kS| kfxdh ds vuqz kx gS
- mijDr v/; ; u ds I Hkh fo"K; {ks=ka I puk dh izdfr dks I e>us gsrq foLrR foopuk dh gS geus ; gkldoy mlgha fo"K; ka dh ppkZ dh gS tks xBfFky; , oa I puk foKku I s I a/kr gS vkSj mi ; kxh gS

1-4 I puk ds izdkj (Types of Information)

geus vc rd I puk dh ijHkk"kk] vo/kkj.kk vkSj izdfr ij I keku; vFkZ ea , oa fo"K; ka ds I nHkZ ea ftuea I puk dk dlnh; LFkku gksrk gS ppkZ dhA ; g Li"V gks tkrk gS fd I puk dh ftl izdkj dkbZ Li"V ijHkk"kk ugha gS ml h izdkj dkbZ , d h I oZeku; 0; oLFk ugha gS ftl ds vk/kkj ij I puk dks I engc) ; k oxhZdr fd; k tk I dA ; gkldge ; g dg I drs gS fd I puk I keftd xqkka ds vk/kkj ij fo'kS'k vko'; drkvka gsrq 0; Bi Uu gsrh gS fdl h fo"K; ea fufgr Kku dks vkSj vf/kd fodfl r djus gsrq ml h izdkj dh I puk cu tkrh gS ts , p-'kjk us I puk dks fuEufyf[kr N% izdkjka ea Js khc) fd; k gS &

¼½ iR; ; Red I puk (Concepted Information) -

bl izdkj dh I puk ds vUrxZr fdl h I eL; k ds vLFkj {ks=ka I s mRi Uu gksus okys fopkj] fl) kUr] ij dYi uk, W vkfn vkrh gS

½½ vuqko vk/kfjr I puk (Expirical Information) -

bl ds vUrxZr iz kx'kkyk ea iz kx ds vk/kkj ij mRi kfnr I kfgR; d [kkst vFkok 'kks'k Lo; a ds vuqkoka }kjk ; k fdl h vU; L=ks=ka I s I E i k.k }kjk i klr

vkrsg

1/3 1/2 dk; fof/kd I puk (Procedural Information)

bl idkj dh I puk ds vlxr bl idz; k fof/k dks I fefyr fd; k tkrk gsfTI ds }kjk vuq akkudrkz dks vksj vf/kd i Hkkoh rjhds I s dk; Z djus ; kx; cuk; k tk I dA bl idkj dh I puk ds vlxr fujh{k.k ds i'pkr vkrsg , df=r fd, tkrsg mudk idyu fd; k tkrk gS vksj ijh{k.k fd; k tkrk gS ; g iwkr% fof/kor dk; Z gsrFkk I Ei wkz I puk oSkfud eukdfR }kjk ikr dh tkrh gA bl idkj dh I puk dk fo'kSk egRo gsrk gA ; g vKkurk ds vakdkj dks I ekr dj , d u; k idk'k mi yC/k djkrh gA idz; k fof/k I puk fTI s oSkfud I puk Hkh dg I drs gS dk , d fo"K; vFkok {ks= I snw js fo"K; {ks= ea I Ei \$k.k mi ; kxh gsrk gA

1/4 1/2 ijd I puk (Stimulatory Information)

euq; I nD I s fopkj'khy jgk gA I keku; r% bl ds nks ijd rRo gsrsg , d og Lo; a vksj nw jk rRo okrkoj.kA bl idkj dh I puk iR; {k I pkj }kjk id kfjr dh tk I drh gA ; g idfr I s vkdfLed gsrh gA

1/5 1/2 ulfr I Ecu/kh I puk (Policy Information)

bl idkj dh I puk ds vlxr ulfr fu/kkZ.k vFkok fu.kZ fu/kkZ.k idz; k I s I Ecu/kr I puk vkrh gA bl ds vlxr I kefigd xrfkof/k; ka dh i fjHkk"kk, W mnas; mRrjnkf; Roka dk fu/kkZ.k] dk; kZ dk fodlnhdj.k] vf/kdkjka dk I agrkc) djuk vkfn dks I fefyr fd; k tk I drk gA

1/6 1/2 fn'kkI pd I puk (Directive Information) -

I g; kx vksj I ello; ds vHkko ea dkbZ Hkh I kefigd xrfkof/k i Hkkoh : i I s vxI j ugha gks I drhA mi ; pr fn'kkfunZk }kjk gh I g; kx ikr fd; k tk I drk gA bl idkj fn'kk I pd I puk I eng dh xrfkof/k; ka vksj fD; k; kdyki ka gsrq egROI wkz gsrh gA mi jkDr fofHku idkj dh I puk dks ml dh fo'kSkrd ds vk/kkj ij Jskhc) fd; k x; k gA ; s fo'kSkrd, W gh I puk ds egRo vksj mi ; ksrk dks Li "V djrh gA ; gkW; g Hkh vko' ; d gS fd I puk dks vf/kd

i Hkkoh cukus ds fy, ml dk l pkj 0; ofLFkr : i l s gskuk pkfg, A

1-5 I puk ds xqk (Properties of Information)

fdl h Hkh l puk dk ijh{k.k ml ds vUrxZr fufgr LokHkkfod fo'kSkrkvka ds nf"Vdksk l s fd;k tk l drk gA l puk dk fofHkUu {ks=ka ea mi ; ksx ml dh vko'drk] egRo vksj xqkka ds vk/kkj ij fd;k tkrk gA l puk ds LokHkkfod xqkka ds vk/kkj ij mu fo'kS'k {ks=ka dk v/ ; ; u l puk ds l nHkZ eafd;k tk, xk ftl l s bl ds fof'k"V xqkka dks fo'yS"kr fd;k tk l dA

3-5-1 I kelU; I puk ds xqk

- & l puk mi ; ksx djus l s u"V ugha gkrhA
- & l puk dks l fEefyr : i l s vusdka 0; fDr; ka l l Fkkvka vksj l xBuka }kjk fcuk fdl h {kfr ds mi ; ksx ea yk; k tk l drk gA
- & ; g , d egROIwkZ turkfU=d l d k/ku gA bl dk mi ; ksx@mi Hkksx xjhc vksj vehj viuh {kerk ds vuq kj dHkh Hkh dj l drs gA
- & l puk xfr'khy gkrh gS fujarj o) l'khy gS vksj fujarj gS bl dh fdl h Hkh vo/kkj.kk ds fy, dkbZ vfUre 'kCn iz; ksx ea ugh yk; k tk l drkA

3-5-2 oKkfud , oarduhdh I puk ds xqk&

- & ; g l koHkkSed gS fo'kS'kr% Hkksrd] j l k; u vksj thofokkuka e]
- & , d l d xBr l pkj izkkyh ds ek/; e l s tks Hkh bl s [kkstrk gS ml s miyC/k jgrh gA vFkkZr fuf'pr izkkyh ds ek/; e l s l Hkh dks miyC/k gA
- & bl l puk ds l Ei\$'k.k ea xgu l eh{k izkkyh vksj l pkj fof/k dks viuk; k tkrk gA
- & ; g cgr gh fodfl r vksj vk/kkfudre uohu l puk gkrh gA
- & xgu vksj xk+vUo\$'k.k ds vk/kkj ij vPNs ifr; ksxh ifj.kke iLrqr djrh gS vksj bl dk l pkj rhoark l s gsrk gA
- & uohu nf"Vdksk l s rhoz fodfl r fo"k; {ks=ka ea ; g vipfyr gks tkrh gS dgy fo"k; ka ea bl dk vipyu cgr vf/kdrk l s gsrk gA

3-5-3 i kS kfxdh , oa vkfKzd I puk &

fodfl r jk"Vka ea i kS kfxdh , oa vkfKzd I s I EcfU/kr I puk jk"Vka ds e/;
 jktufsd vksj vkfKzd mRd"Vrk dk 'kfdR'kkyh : i ys pph gA I puk ea
 mRi knu vksj fofHKUu {ks=ka ea ml vuqz kx us dN gh I e; ea fo'kSk : i I s
 if'peh vksj kfxd I ekt ea , d fof'k"V LFkku cuk fy; k gA vfodfl r vksj
 fodkl 'khy jk"V" i kS kfxdh I s I EcfU/kr I puk ds vf/kxg.k] I xg.k] i f0; kdj.k]
 I Ei k.k vksj vuqz kx I s dHk&dHk fofHKUu dkj.kka I s vi us vki dks ofpr
 i krs gS D; kfd %

& I e; vksj HkSkksyd I hekvka ij fofHKUu dkj.kka I s ifrcfU/kr]

& 0; ki kfjd ykHk ds dkj.k ijLij i frLi /kk]

& ijLij jk"Vka ds e/; I j {kk I Ecu/kh : dkoVj}

& I j {kk dh n"V I s xki uh; rk cuk, j [kus gSA

; s dN , d s dkj.k gS ftuds QyLo: i I puk ds mi ; kx dh I koHkksedrK
 I ekr gks tkrh gS vksj bl dh xfr'khyrk ea ck/kk vkrh gA

1-6 I puk ds {ks= (Scope of Information)

I puk dk {ks= foLrR gkrk gA bl s I hekc) ugha fd; k tk I drk gA I puk
 dh mi ; kfxrk Kku dks I ef) djus ea fufgr gS fdl h Hkh {ks= ea dkbZ Hkh
 'kksk] vUoSk.k vksj iz kx fcuk Msk vksj I puk ds vflrRo ea gq ugha gks
 I drk vksj dkbZ Hkh u; k 'kksk] vUoSk.k ; k iz kx ubZ I puk dks mRi knr ugha
 djrk rc rd ml s i wkZ ugha dg I dra bl izkj p0ku0e ea I puk ds {ks=
 ea fujrj of) gkrh jgrh gA i R; d fu.kz i f0; k ea bl dk egRo gkrk gA
 I puk ds egRo vksj mi ; kfxrk dks fujrj xfr inku djus ds fy, bl dk
 I pkj@ Ei k.k vko'; d gA vr% I puk dks I pkj I s vyx ugha fd; k tk
 I drkA

I puk I pkj i f0; k vksj I puk dk LFkkurj.k rFkk Lora= i0kg I puk ds {ks=
 ea fujrj vfHkof} djrs gA L=kr ; k I pkjd] ek/; e] I k/ku vksj i ki d vkfn
 , d s rRo gS tks I puk LFkkurj.k J[kyk dks fufeR djrs gA
 ; fn ge xUFkky; , oa I puk foKku ij I puk ds {ks= ds I Ecu/k ea /; ku

dšUnr djs rks l p̄uk foKku ds {ks= ea tks fofo/k vk; keka ea foLrkj gks jgk
 gS ml l mHKZ ea l p̄uk ds {ks= dk ijh{k.k djuk mi ; Ør gksxkA
 fodjh us l p̄uk foKku ds {ks= dks l f{klr : i ea bl izdkj iLrq fd; k g%
 & l p̄uk LFkkukUrj.k i fØ; k ea mRi knD] L=ksr iki d vks] l p̄uk ds mi ; ksxdrkZ
 vkfn l Hkh Hkkxhknj gksrs g]

& l mS kka dk l [; kRed v/; ; u% vkdkj] of)]nj] forj.k] mRi knu vfHk: i vks]
 mi ; ksx vkfnA

& l p̄uk l s l EcfU/kr dN l eL; k, Ø fo'ks'k : i l s l p̄uk l xg.k] vks] i qizlR
 vks] vU; bl ds vUrxr vkrh g]

& l p̄uk i) fr; ka vks] izkky; ka dk i wkZ-% l xBu vks] mudsfu"i knu vks] izfr
 dk LFkkukarj.k]

& l keftd l mHKZ ea l p̄uk ds LFkkukUrj.k l s rkRi ; Z fo'ks'kr% vkfFkZd vks]
 jktuSrd {ks=ka e]

& l keftd l mHKZ ea l p̄uk ds LFkkukUrj.k l s rkRi ; Z fo'ks'kr% vkfFkZd vks]
 jktuSrd {ks=ka eA
 bl h l mHKZ ea jaxukFku }kjk ifrikfnr xBFkky; foKku ds i kP l w=ka dh l p̄uk
 foKku ds {ks= dks i nf'kZr djus dh nf"V l s th- HknVkp; kZ us tks foopuk dh
 g] ; g vkt ftl izdkj l s l p̄uk ds {ks=ka ea of) gks jgh gS ml s cgr Hkyh
 izdkj ifjyf{kr djrh g]

& l p̄uk mi ; ksx ds fy, gS

& i R; d mi ; ksxdrkZ ds fy, l p̄uk

& i R; d l p̄uk ds fy, mi ; ksxdrkZ

& l p̄uk mi ; ksxdrkZ dk l e; cpkb,

& l p̄uk txr l nD o) Lu'khy g]

i Fke fl }kr % l p̄uk ds egRo ij tkj nrk g] l p̄uk dks ekuo ds i R; d
 fØ; kdyki gsrq , d vko'; d vo; o ekurk g] l p̄uk l ekt ea l p̄uk dks
 , d l d k/ku vks] l EInk ekuk x; k g] ; g ekuo fodkl vks] izfr ds fy,
 vko'; d fuoSk ds : i ea i frf"Br g] vr% bl ds ifjiky gsrq &

& I p̄uk I s I EcU/kr i zys[kh; vks̄ vi zys[kh; I d̄ k/kuka dk fodkl]
& I eLr izdkj ds I p̄uk I d̄ k/kuka dk I efp̄r I æBu vks̄ 0; oLFkki u
& I p̄uk I æg ds ifdz kdj.k gsr̄q I efp̄r rdudhdh vks̄ I k/ku L=ks̄]
& fofo/k I anHkk̄z ea fofo/k izdkj ds I kfgR; dk mi ; ks̄]
& I æg of) vks̄ fodkl dks eki us gsr̄q x̄bFkfevr v/; ; u]
& jk"Vh; vks̄ vUrjkzVh; Lrj ij I p̄uk uhfr dk fodkl

buds vfrfjDr&

& uohu eks̄yd I p̄ukvka dk Hkfo"; ds gsr̄q mRi knu]
& or̄eku I p̄uk dk eY; ka du
& 0; fDrxr vks̄ I kekftd fØ; kdyki ka ds i R; s̄d Lrj ij I p̄uk dh mi ; ks̄xr̄k
ds I EcU/k ea fu.kz̄ {kerkA
& uohu egRoi wkz I p̄uk I s̄kvka dk fodkl djuka
& f'k{k.k&i f'k{k.k dks i k̄l kfgr djuka
& I p̄kj I f̄o/kk, a fodfl r djuka

f}rh; fl)kar& I p̄uk ds I EcU/k ea I p̄ko nr̄k ḡA I p̄uk I s̄k, a , d h gksuh pkfg,
tks i R; s̄d mi ; ks̄drkz dks ml dh ek̄ vks̄ vko; drk ds vuq kj dj I ds
vFkk̄r i R; s̄d mi ; ks̄drkz dks I p̄uk mi yC/k gksuh pkfg, A

r}rh; fl)kar% bl fl }kar dk er ḡsfd I eLr I p̄uk dh LFkkukUrj.k ifØ; k , d h
gksuh pkfg, fd I eLr I p̄uk dk mi ; ks̄ gks I d̄A bl I EcU/k ea fpji f̄jpr
fl)kUr& mfpr I p̄uk] mfpr mi ; ks̄drkz gsr̄q mfpr I e; ij mi yC/k djkbz
tkuh pkfg, A i k̄Fkfed] f}rh; d vks̄ r}rh; d I Ei k̄.k ek/; ek̄ dks I p̄uk ds
mi ; ks̄ gsr̄q d̄fUnr fd; k tkuk pkfg; A n̄l js 'kCnka ea dg I drs ḡsfd I p̄uk
cktkj ea I cl s/; ku mi ; ks̄drkz dh vko'; drk ij fn; k tkuk pkfg, ftI I s
I p̄uk dk , d&, d vāk mi ; ks̄drkz dks i k̄l r gks I d̄A

pr̄q̄kz fl)kar %; g fl)kar I e; ds eY; ij cy nr̄k ḡs I s̄k i nku djusea rhork
vks̄ de I s de I e;] bl fl)kar dk /; s̄ ḡA I p̄uk rdudhdh dk fodkl]
fodfl r I s̄k, a , oa I d̄ k/ku vks̄ I eLr I s̄kvka ea xqkoRrk rFkk I {kerk gksuh
pkfg, A I p̄uk oKkfudka dh xqkoRrk ea of) mlga mi ; p̄r i f'k{k.k vkfn rFkk

muea l ok ijk; .krk dh Hkkouk dk fodkl ftl l sosbl fl) kar ds egRo dks
l e>rs gq mi ; ksxdrkZ ds le; dh cpr dj l dA

i k p o k fl) kar %&; g fl) kar xR; kRed ifjorZuka dh vksj baxr djrk gA Kku vksj
l p u k ea fujarj of) gkrh jgrh gS vulr fodkl ea v0; oLFkk Hkh i kbZ tkrh
gA vr%bl snj djus ds fy, l LFkkxr ; ka=dhdj.k vko'; d gSftl l scnyrs
ifjosk ea uohu fodfl r l p u k v k a v k s j m u l s l EcfU/kr vko'; drkvka dks
0; ofLFkr fd; k tk l dA

mijkdR fl) karka dk ; fn ge ijh{k.k dja rks i k r s g S f d i F k e fl) k a r d k
mnas; l p u k d s m i ; k s x e a o f } d j u k g A n i j k fl) k a r m i ; k s x d r k Z d h i R ; d l
l p u k v k o ' ; d r k d h i f i r z i j t k j n s r k g A r h l j k l p u k d k i R ; d l v a k
m i ; k s x d r k Z d k s m i y C / k d j k ; k t k ; A p k S k k fl) k a r l e ; v k s j l p u k d s e g R o
d k s l e > k r k g S r F k k i k p o s fl) k a r e a l p u k o f) d h x f r v k s j m l d k s 0 ; o f L F k r
d j u s i j t k j f n ; k x ; k g A

1-7 l p u k d k f o r j . k (Scatter of Information)

x t l F k k y ; , o a l p u k d b n k a d h i R ; d l x f r f o f / k v k s j l o k v k a d k v k / k k j
f o " k ; & o L r q f o ' y s k . k g A x t l F k k y ; v k s j l p u k d b n k a } k j k K k u v k s j l p u k v k a d k
l a g . k v k s j 0 ; o L F k k i u d j f o f H k U u J s . k ; k a d s m i ; k s x d r k Z / k a d k s f o f H k U u l o k , a
i n k u d h t k r h g A K k u d s 0 ; o L F k k i u d h f o f H k U u r d u h d k a e a f o " k ; & o L r q
f o ' y s k . k v k U r f j d : i l s v U r f u f r g r g k r k g A f o " k ; & o L r q f o ' y s k . k i f 0 ; k d s
} k j k K k u d k f o ' y s k . k d j f o f H k U u f o p k j a d k l a y s k . k d j m i ; k s x d r k Z / k a d k s
o k a f N r L o : i e a i n k u d j f n ; k t k r k g A o x h z d j . k r d u h d k a v k s j K k u r F k k
l p u k 0 ; o L F k k i u i f 0 ; k d s l k F k f e y d j f o " k ; & o L r q f o ' y s k . k , d v R ; U r
l ' k D r l p u k i p i k z l r i f o f / k d k s i L r q d j r s g A b u i f d z k v k a e a v u s d
c k s) d l a 0 ; k , a l f E e f y r g S t S s f o ' y s k . k] l a k s t u] 0 e h d j . k] i F k D d j . k]
l e h d j . k] l j { k . k] i j h { k . k] u o h u h d j . k v k s j m n a s ; A

f o f H k U u t u l e g k a d k s f o f o / k l a n H k k z e a f o f H k U u i z k j d h l p u k v k a d h
v k o ' ; d r k g k r h g A l p u k , w f o f o / k L o : i k a e a m i y C / k g k r h g A m i ; k D r k v k a d h
l p u k v k o ' ; d r k v k a d h t f v y r k v k s j m i y C / k l p u k v k a d h x q k k R e d o f) d s

QyLo: i I p̄uk dk mi HkkDrkdj.k vR; Ur vko'; d gks x; k gA ys[kdka }kjk
vfHkfy[kr I p̄uk, W if=dkvkā 'kks'k i=kā rduhdh ifronukā I Eesyu i=kā
'kks'k i zU/kkā i v/vV] ekud vkfn : i ka ea mi yC/k gsrh gA I p̄uk dh vkf'kd
i kflr gsrq mi ; kDrk dks bu L=krka dk mi ; ksx djuk gsrk gA I p̄uk foLQk/
ds dkj.k mi ; kDrk ds fy; s bu I p̄uk L=krka ds , d Hkkx dk mi ; ksx Hkh
vR; Ur dfBu gA I p̄ukvka ds fc[kjs Lo: i ds dkj.k Hkh mi ; kDrk dfBukbz dk
vuhko djrs gA vr% I p̄uk dh I yHk mi yfC/k gsrq I p̄uk dk mi HkkDrkdj.k
vko'; d gA I p̄uk ds forj.k dk rkRi ; Zeny I p̄uk vFkok I p̄uk L=kr dks
Vsyfjæ vFkkzr mi ; Dr dkW&NkW] 0; oLFkki u vksj i zU/ku }kjk mi ; kDrk dh
vko'; drkvka ds vuq i i Zrq djuk gS rkfd I p̄uk dk vfHkKku] LFku
fu/kkz.k] mi yfC/k vksj mi ; ksx I EHko vksj I q k/; gks I dA mi HkkDrk I epk;
dh vko'; drkvka ds vuq i I p̄uk L=krka dk I dyu vksj i qD; oLFkki u fd; k
tkuk pkfg; A

I p̄uk ds mi ; ksdrkz/ka dh fofHkUu Jf.k; ka ea I p̄uk vksj fodkl dk; Zrkz
rduhf'k; u] fu; kst d] i zU/kd] fu.kkz d] f'k{k d] vksj fofHkUu I kelftd Lrjka
vksj i fr"Bk ds vuq kj tul k/kj.k vkfn i zed[k gA bu v/; ; uka I s irk pyr
gS fd fofHkUu 0; fDr; ka dh I p̄uk vko'; drk, WfHkUu&fHkUu gsrh gS rFkk , d
gh 0; fDr dh I p̄uk vko'; drk, W/Hkh I e; ds I kFk&I kFk i jofrZr gsrh jgrh
gA i zU/kdkā fu.kkz dka vksj tul engka ds vfrjDr vU; mi ; ksdrkz/ka dh
I p̄uk vko'; drkvka dk , d I keU; i freku gsrk gA fdUrq fQj Hkh i R; d
0; fDr dh I p̄uk vko'; drk, W/vkykpukRed gsrh gA v/; ; u I s Kkr gsrk gS
fd I keU; turk ds vf'kf{kr vksj fu/kz oxZ dh I p̄ukRed vko'; drk, W
I okz/kd vkykpukRed gsrh gA mi ; ksdrkz/ka }kjk vyx I e; ij viuh
vko'; drkvka ds vuq kj fuEu Jf.k; ka ds vUrXr I p̄uk L=krka dh vko'; drk
gsrh gA

- 1- uohu I p̄uk
- 2- foLrR I p̄uk
- 3- fuR; i fr I p̄uk

4- vkd"kd I puk

bu I Hkh izdkj dh I pukvka ds vi us fof'k"V y{k.k vksj fo'ks'krk, W gsrh gA
1- uohu I puk vko'; drk, W%& uohu fodkl ka I s ifjpr gkus ds fy; s rFkk
fof'k"V xfrfof/k {ks= rFkk vU; I EcfU/kr {ks=ka dh v|ru tkudkjh ds fy; s
mi ; ksxdrkz/ka }kjk uohu I pukvka dh vko'; drk vuqko dh tkrh gA I puk
L=krka dh I kef; d vksj Rofjr mi yC/krk bl I puk I ok dh ied[k fo'ks'krk, W
gA vR; Ur rhozfr I s fodfl r gkus okys fo"k; {ks=ka ea ; g I ok vR; Ur
vko'; d gA {ks= dh uohu xfrfof/k; ka ds Kku ds QyLo: i xfrfof/k mRi knu
vksj i fO; k ds uohu {ks= ds p; u ea I gk; rk i klr gsrh gA vU; 0; fDr; ka
}kjk iz, pr i fof/k; ka vksj rdudka ds iz, ksx }kjk dk; Z dh f}jkofRr dks jkdk
tk I drk gS rFkk uohu I kekftd] jktuhfrd vksj vkfFkd fopkja vkfn I s
ifjpr gvk tk I drk gA

2- foLrr I puk vko'; drk, W%& bl izdkj dh vko'; drk rc mRi uu gsrh gS
tc mi ; ksxdrkz }kjk , d gh {ks= dh foLrr I pukvka dh ekax dh tkrh gA
I eLr i kl fixd I puk L=krka dh mi yC/krk I s Je dh f}jkofRr dks fu; f=r
dj dk; Z ds uohu {ks=ka dk p; u fd; k tk I drk gA I puk L=krka dh foLrr
[kkst ds I kFk&I kFk foLrr I kfgR; d [kkst }kjk fdl h fof'k"V {ks= dh fof'k"V
xfrfof/k I s I EcfU/kr I eLr mi yC/k I pukvka dk I Ei wkZ fp=.k Li "V gks tkrk
gA

3- fuR; ifr I puk vko'; drk, W%& fnu ifrfnu dh xfrfof/k; ka ea Hkh
mi ; ksxdrkz/ka }kjk fofHKUu izdkj dh I pukvka dh vko'; drk vuqko dh tkrh
gA bl izdkj dh I puk vko'; drkvka dh ifrZ gsrq fof'k"V I puk vak dh
vko'; drk gsrh gS rFkk Rofjr mRrj i nku djus gsrq fof'k"V izdkj ds I mHKZ
L=krka dh I gk; rk yh tkrh gA

4- vkd"kd I puk vko'; drk, W%& mi ; ksxdrkz/ka }kjk fdl h fof'k"V {ks= dh
fdl h xfrfof/k I s I EcfU/kr fodkl ka dh I Ei wkZ tkudkjh Hkh I f{klr Lo: i ea
ekaxh tkrh gA bl izdkj dh I puk vko'; drk dh ied[k fo'ks'krk ; g gS fd
mi ; ksxdrkz fdl h {ks= ea cgq vf/kd : fp ugha j [krs rFkk muds }kjk ekax dh

tkrh gSfd I p̄uk I jy vKš I f{klr : i ea bl idkj mi yC/k djokbz tk; s
fd I Ei wKz fo"K; dks I jyrki wD I e>k tk I dA
I p̄uk dh idfr ds vk/kkj ij I p̄uk L=krka dks i kFkfed] f}rh; d vKš
r̄rh; d Jf.k; ka ea foHkfr fd; k x; k gA mi ; ksdrkZ/va dh fofo/k vko' ; drkvka
ds vuq i I p̄uk dks dK&NkW dj ml dk mi HkkDRkkdj.k fd; k tkrk gA uohu
I p̄uk vko' ; drkvka vKš foLr̄r I p̄uk vko' ; drkvka dh I Urq"V grq mfr
I p̄uk L=krka dk i wZu p̄ku ugha yxk; k tk I drkA tcfu fuR; ifr I p̄uk
vko' ; drkvka vKš vkd"kd I p̄uk vko' ; drkvka dh i firZ grq I p̄uk L=krka
}kj k fuf'pr I p̄uk inku dh tkrh gA

1-8 I kfgR; dk vuqz kx (Implication of Literature Usage)

fofHkUu {ks= ds I p̄uk mi ; ksdrkZ/va dh I p̄uk vko' ; drk vi u&vi us fo"K;
I s I cā/kr gsrh gA bu I p̄uk vko' ; drkvka dh i firZ grq i qrdky; , d I s q
dk dk; Z djrk gA t gkW mi ; ksdrkZ/va dks I cā/kr I kfgR; , oa I p̄uk, W i klr
gks I dA
orZku ea xBFkky; , oa I p̄uk d̄lnka dh Hkfiedk ea rhoRk I s ifjorZu gks jgk
gA i kjEHk ea t gkWe qnr v/; ; u I kexh ds vUrxr xBFkka vKš i =&i f=dkvka
dk I xg.k fd; k tkrk Fkk ogkW vc I kef; d idk'ku] I Eesyu dk; bKfg; k
'kks'ki zU/k ekud] rduhdh fji kS] JO; &n"; I kexh] ekbdk QW] eXusVd
VSI] I hMh&jke vkfn Lo: i ka ea I p̄uk dk I xg.k fd; k tkrk gS bl idkj
I p̄uk I kexh dk Lo: i ifjof) r̄ gks jgk gS iz kDrkvka dh vko' ; drkvka ea
Hkh ifjorZu vk jgk gA vKš ksxdj.k vKš I p̄uk i kS] kSxdh dh rhoz fodkl ds
QyLo: i vkt i R; d {ks= ea fof'k"Vhdj.k dh vko' ; drk dk vuqzko fd; k
tkrk gS vr% mi ; ksdrkZ/va dh ekWk vKš vko' ; drkvka dh i firZ grq i yS] ku
I ok] vuq̄e.khdj.k] I kjdj.k] vuqkn , oa fji kSktQh I okvka ds I kFk&I kFk I h
, , I , oa , I -Mh- vkbZ I ok, W vKš vU; i) fr; kWfodfl r dh xBA xBFkky; ka
ds I kFk&I kFk i yS] ku d̄lnka I p̄uk fo'yS'k.k d̄lnka vkfn dh LFkki uk dh xBZ
gA nij I pkj ek/; eka ds fodkl us dEI; Wj ij vk/kkfjr i) fr; ka ds fodkl ea
vi uh eq; Hkfiedk fuHkk; hA xBFkky; , oa I p̄uk d̄lnz Hkh dEI; Wj vKš I pkj

I k/kuka I s vNirs ugha jgA QyLo: i I p̄uk dh i q̄% i k̄l̄r Rofjr xfr I s I EHko
gks I dhA I Hkh {ks=ka ea I p̄uk dh egRrk c<us ds dkj.k I p̄uk ds i d̄ kj.k , oa
mi yC/krk dh vko'; drk ds QyLo: i uš/ofd̄x dh vo/kkj.kk dk fodkl
ḡp̄kA uš/ofd̄x dk mi ; ksx I p̄uk ds fofue; vks̄ I d̄ k/ku I gHkkf̄xrk ds fy,
fd; k tk jgk ḡA bl i d̄kj x̄d̄Fky; , oa I p̄uk d̄bnz vi us vk/k̄ud i fjof) Ī
Lo: i ea Hkh vk/k̄ud I p̄uk I ōkvka dh 0; oLFkk dj vi us mi ; k̄Drkvka dks
mudh ek̄x vks̄ vko'; drku d̄ kj I p̄uk mi yC/k dj kus ea vi uh Hk̄f̄edk dk
fuok̄g dj jgs ḡA

1-9 I kjl̄k̄ (Let Us Sum Up)

rho x̄fr I s fodf̄l r fo'o ea MkV̄k ; k I p̄uk , d egRoi wk̄z I d̄ k/ku vks̄ 'k̄f̄Dr
ds : i ea mHkj dj vkbz ḡA i R; d̄ i d̄kj ds vu d̄ akku] v̄loš̄.k k vks̄ fodkl
ea bl dk egRoi wk̄z LFkk̄u ḡA I p̄uk ds vHkko ea d̄kbz Hkh fodkl v̄Fkok i x̄fr
I EHko ugha ḡA Kku ds i fj {ks= ea I p̄uk dks , d rRo ds : i ea i fj Hk̄k̄f̄"kr
fd; k x; k ḡA I p̄uk dk {ks= c̄gr̄ foLr̄r vks̄ i d̄fr x̄fr'khy ḡA I p̄uk
txr ds v̄l̄rx̄r d̄bz fo"k; {ks= , d̄ s ḡs ftuea I p̄uk d̄bnh; f̄c̄l̄nq ḡk̄rh ḡA
I p̄uk foKku ds v/; ; u ea I p̄uk i k̄s̄] k̄fxdh dk i Hkko] fofHk̄Uu iz k̄k̄fy; ka vks̄
I ōkvka dk i k̄n̄d̄k̄k̄b̄ ea I p̄uk egRoi wk̄z LFkk̄u j [krh ḡA I p̄uk vo/kkj.kk dks
d̄bz v̄f̄Hk̄xeka ds ek/; e I s Li "V fd; k x; k ḡA I p̄uk dh i z̄d̄k̄ fo'k̄s̄krkvka
dk o.k̄z̄ djrs ḡq ; g Li "V gks t̄krk ḡs fd I p̄uk I kj i wk̄z rFkk m̄n̄s̄; i wk̄z
ḡk̄rh ḡA bl ds Nk̄s̄&Nk̄s̄/s v̄k̄ka dk Hkh mi ; ksx fd; k tk I drk ḡA bl s fofHk̄Uu
ek/; eka ea i fjofr̄r fd; k tk I drk ḡA ; g x̄fr'khy ḡk̄rh ḡA I p̄uk dk
m̄Ri knu bruh n̄p̄x̄fr I s gks jgk ḡs fd I Ei wk̄z m̄Ri k̄fnr I p̄uk dk mi ; ksx ugha
gks I drkA bl i d̄kj v̄f/kd ek=k ea m̄Ri knu] Hk̄k̄"kvka dh fofHk̄Uurk̄]
I d̄ k/kuka dk vHkko vk̄fn , d̄ s d̄kj d̄ ḡs t̄ks I p̄uk ds mi ; ksx ea voj̄ks̄kd ekus
t̄krs ḡA

mi j̄k̄Dr foopuk ds vk/kkj ij ge dg I drs ḡs fd I p̄uk vi uh i d̄fr] x̄qk
vks̄ fo'k̄s̄krkvka ds vk/kkj ij I p̄uk Øe 0; oLFkk dks fu/k̄k̄z̄r djrh ḡs vks̄
fopkj/kkj kvka dk i fr̄fuf/k̄Ro djrh ḡA I p̄uk dk I p̄kj ds I k̄Fk ?k̄fu"B

I ECU/k gkrk g\$ I puk fofue; dh oLrqgkrh g\$ vks I pkj I kekftd fofue;
dh if0;k g\$ fofHkUu izdkj dh I eL; kvka ds fujkdj.k ea I puk , d
egRoi wkZ dkjd ekuh tkrh g\$

1-10 Lo tkp vH;kl (Self Check Exercise)

- 1- I puk dk vFkZ Li "V djrs gq ml s ifjHkkf"kr dhft, A
- 2- I puk ds fofHkUu izdkj crkrs gq muds xqkka dks fyf[k, \
- 3- fVli .kh fy[k\$
 - 1- I puk dk forj.k
 - 2- I kfgR; dk vuq; z ksx

- 2-0 fo"i; i D'sk &(Introduction)
- 2-1 m'is' ; (Objectives)
- 2-2 MkVv dk vFkz(Data : Meaning & Definition)
 - 2-2-1 MkVv dk vFkz
 - 2-2-2 MkVv dh i fjHkk"kk (Definition of Data)
- 2-3 MkVv ds i zkj (Types of Data)
 - 2-3-1 foKku ea MkVv ds i zkj
 - 2-3-2 I kekftd foKku ea MkVv ds i zkj
- 2-4 MkVv dk {ks= (Scope of Data)
- 2-5 oKkfud , oarduhdh MkVv (Scientific & Technical Data)
- 2-6 MkVv i Lrfjdj.k (Generation & Presentation of Data)
- 2-7 MkVv I dyu , oaeV; kdu (Collection & Evaluation of Data)
 - 2-7-1 MkVv I dyu
 - 2-7-2 eV; kdu
- 2-8 bdkb] i rhd] ek=kRed vhdMs(Unit, Symbol & Nomenclature Data)
- 2-9 [kkt I gk; d (Seeking Help)
- 2-10 I kjk'k (Let us sum up)
- 2-11 Lo&t'p vH; kl (Self Check exercise)

2-0 fo"k; iɔʂk &(Introduction)

'kʂk ik: i , oai fjdYi ukvka dh j puk djusdsi 'pkr 'kʂkdrkzdk iæf k mīś ;
'kʂk v/ ; ; u dsfy; sMkVk dk l ædyu djuk gkrk gSA MkVk ds l ædyu dsfy; sog mu
L=kska dh [kʂt djrk gSftul s 'kʂk v/ ; ; u dsfy; s i ; kʂr ek=k ea MkVk mi yC/k gks
l dA 'kʂkdrkzvi usv/ ; ; u dsfy; smUgh MkVk dk l ædyu djrk gStksml ds }kjk jfpr
ifjdYi ukvka }kjk ; k rksLohdkj dj fy; s tk; a ; k vLohdkj dj fy; s tk; a 'kʂkdrkz
}kjk l æfyr l æd ftrusvf/kd fo'ol uh; gksrgā 'kʂk v/ ; ; u ds }kjk mrusgh vf/
kd oKkfud vksj mi ; kxh fu"d"lznak l Hko gks tkrk gSA , d h n'kk ea i R; æd 'kʂkdrkz
l ædka ds l ædyu dsfy; s dōy mu ifof/k; ka , oa i) fr; ka dh l gk; rk l s MkVk dks
l æfyr djrk gSvfi r qmu L=kska dh [kʂt Hkh djrk gSftul s 'kʂk v/ ; ; u dsfy; s
mi ; Ør MkVk l æfyr gks l dsA

2-1 mīś ; %&

bl bdkbz ea vki dk ifjp; MkVkj MkVk ds iɔkj] fofHKUu {ks=ka ea MkVk dk
mi ; kx fdl rjg l sfd; k tkrk gSA bl bdkbz dks i <us dsckn vki
& MkVk ds fofHKUu Lo: i ka dh 0; k [; k djæaA
& foKku rFkk l keftd foKku ea MkVk ds iɔkjka ea vUvj dj i k; æaA
& oKkfud MkVk rFkk rdudh MkVk dh mi ; kxrk dks l e> l dæaA
& MkVk i Lrfrdj .k dh fof/k dks l e> l dæaA
& MkVk ds l ædyu rFkk ml dk eV; ka du ds rjhdka dk o.ku dj l dsæaA

2-2 MkVk dk vFKZ , oa ifjHK'kk %&

2-2-1 MkVk dk vFKZ %&

'kʂk v/ ; ; u ea {ks=h; ; k iys[kh; vk/kkj ij 'kʂkdrkz tks MkVk l æfyr ; k
, df=r djrk gSog MkVk (Data) dgykrk gSA

2-2-2 **Mkvk dh ifjHkk"kk** (Definition of Data) %&

^Mkvk* 'kCn ySVu Hkk"kk l smRi Uu gw k gSft l dk vFkZ gS tks dN Hkh fn; k tk; s
½Any thing that is given½ bl dh fofHkUu ifjHkk"kk bl idkj gS%&

- 1- o&LVI Z FkMZ U; w b&ju skuy fMD'kujh (Webster's Third New International Dictionary) usMkvk bl idkj ifjHkk"kr fd; k gS^dN Hkh inUk ; k Loh—r] i Lr q ; k vuqer rF; vFkok fl) kUr] ft l dsÅij , d vuqeku vFkok rdZvk/kkfjr gkrk gSft l ds vk/kkj ij fdl h Hkh idkj dh vkn'kz izkkyh dk fuekZk fd; k tkrk gS A*
- 2- **vkWl QkMZ , ul kbDyki hfM; k b&xy'k fMD'kujh** (Oxford Encyclopaedia English Disctionary) dsvuq kj & ^fu"d"ka vFkok vuqeku dsfy; svk/kkj ds: i ea iz q r Kkr rF; , oaoLrq a
- 3- ; **u&dka** (UNESCO) **ds vuq kj** & ^ekuo ; k vkWkeSVd ek/; eka ds }kj k l Ei k.k.k] fuo pu vFkok i f0; kdj.k ds fy; s mi ; q r vks pkfjd : i ea rF;] vo/kkj .kk vFkok vup s k*
- 4- **dkMv/k** (Committee on Data for Science and Technology) **dsvuq kj** & v f/kdre ifj'kq) : i ea oSkfud Kku ds l kj dk i kn'ke i Lr q rdj.k bl ifjHkk"kk dsvuq kj Li "Vrk , oa ifj'kq) rk vk dMs dh nks vko' ; d fo' kkrk, a g&A

2-3 **Mkvk ds idkj** (Types of Data)%&

l cl s igys mlgs fo" k; ka ds vk/kkj ij Js khc) dj l drs g& t& &foKku] l keftd foKku] bu fo" k; ka ea Mkvk dks fHkUu & fHkUu idkj l sfoHkkftr fd; k tk l drk gSA

2-3-1 **foKku eaMkvk ds idkj** [Types of Data in Science] %& Codata

us1975 ea vk dMs dks Js khc) dj us dh vko' ; drk ml l e; egl u dh tc osMkvk mi yC/ krk dh l eL; k ds ifronu ij dk; Zdj jgs Fks A bl dk; Z l e g us, d i) fr fodfl r dh] ft l ds vuq kj oSkfud vk dMs dh fuEufyf [kr J&.k; ka cukbZ tk l drh g& %&

1- **I e; i {k ds i z a ea vkaM s** (Data with reference to time factor) & bl

I e; i {k ds vk/kkj ij MkV/k dks nks i zdkj ka ea o x h r dj I drsg s &

1/2 I e; Lora= vkaM s ; g in mu vkaM ka l sl a f i /kr g SA ftudk eki u
i q % i q % fd ; k tk I drk g SA mnkgj .k ds fy ; s Hk & fo Kku v k s [kxky fo Kku
(Geo-sciences & Astronomy) l sl a f i /kr vkaM s A

1/2 I e; vkfJr vkaM s (Time dependent Data) & bl dk eki u , d ckj
gh fd ; k tkrk g SA t s s Hk & s r dh ; , o a v r f j {kh ; (Cosmological) ? k Vuk , a A t s s
Tokyke f kh dk Q Wuk vkfn A bl h i zdkj n y k thok' eka l sl a f i /kr vkaM s Hkh bl h
Jskh ea vkrsg s A

2- **LFku i {k ds i z a ea vkaM s** (Data with references to location factor) &

LFku i {k ds i z a ea vkaM ka dks fu Eufyf [kr J s .k ; ka ea fo Hk f t r fd ; k tk I drk g S
A

1/2 LFku Lora= vkaM s (Location Independent Data) & ; s o s vkaM s g s
t k eki u dh tk jgh o Lrq ; k i nk Fk z dh fLFkr I s Lora= g l rsg s A mnkgj .k ds fy ; s
'kq) Hk s r d v k s j l k ; u fo Kku ds vkaM s A

1/2 LFku vkfJr vkaM s (Location dependent Data) & ; s vkaM s eki u
dh tk jgh o Lrq ; k i nk Fk z dh fLFkr ij vkfJr g l rsg s A bl Jskh ea Hk & fo Kku]
[kxky fo Kku l sl a f i /kr vkaM s vkrsg s bl ds l k Fk & l k Fk p e k u ka l sl a f i /kr vkaM s
Hkh LFku vkfJr vkaM s g s A

3- **mRi fuk dh fof/k ds i z a ea vkaM s** (Data with references to mode of
generation) & ; s rhu i zdkj ds g l rsg s &

1/2 i k Fked vkaM s (Primary Data) & ; s vkaM s eki u ds fy ; s cuk ; s x ; s
i z ; k s ka v Fkok voykduka ds } k j k i k l r fd ; s tkrsg s A

1/2 0; Ri lu vkaM s (Derived Data) & ; s vkaM s vud i k Fked vkaM ka ds

I) kárd ifr: i dh l gk; rk l s t k M s t k r s g á A

¼ ½ I) kárd v k a M s (Theoretical Data) & ; s v k a M s I) kárd x. k u k v k a l s
i k l r g k r s g á A m n k g j . k d s f y ; s l w z g . k l s l a f / k r v k a M s A

4- I) kárd e w ; dh iz-fr ds iz l a e a v k a M s (Data with references to
nature of quantitative values) & bl J s k h d s v k a M s a d k s n k s H k k x k a e a f o H k k f t r
d j l d r s g á A

¼ ½ fu'p; v k a M s (Determinable Data) & fu'p; v k a M s o s g á t k s f u f ' p r
i f j f l F k f r ; k a e a l i " V e w ; i k l r d j u s g r q d Y i u k d h e k = k l s l a f / k r g k r s g á A

½ LV k a M s L V d v k a M s (Stochastic Data) & e k = k l s l a f / k r v k a M s t k s f d
f u f ' p r i f j f l F k f r e a , d u e u s l s n l j s u e u s e h , d e k i u l s n l j s e k i u e a f l F k j
e w ; n r k g S o g L V k a M s L V d v k a M s d g y k r k g S A H k k o K k u (Geoscience) d k v f /
k d k á k v k a M s b l h J s k h e a v k r k g S A

5- v f h k ; f D r d s l a k d s i z l a e a v k a M s (Data with references to terms of
expression) & bl J s k h e a r h u i z k j d s v k a M s v k r s g á t k s b l i z k j g S A

¼ ½ e k = k R e d v k a M s (Quantitative Data) & H k k á r d f o K k u d k v f / k d k á k
v k a M s e k = k R e d v k a M s g k r k g S A

½ v) & e k = k R e d v k a M s (Semi-Quantitative Data) & ; s v k a M s u d k j k R e d
v k s l d k j k R e d m ú k j k a l s l a f / k r g k r s g á t k s f d i n k s e a l f e e f y r f o f h k u
f o ' k s k r k v k a l s l a f / k r i n s x ; s i z u k a l s l e u s v k r s g á A m n k g j . k d s f y ; s t h o
f o K k u e a i k f . k ; k a d k o x h b j . k j t k f r ; k a d h v k d k j d h ;] t b j l k ; u v k s v l ;
f o ' k s k r k v k a l s l a f / k r i z u k a d s m ú k j i j v k / k k f j r g k r k g S A ^ g k á ; k ^ u k * e a g k r s
g á A b u v k a M s a d k s v) & e k = k R e d v k a M s d g r s g á A ^ g k á v k s ^ u k * d k s l v k s 0
d s : i e a d k s / f d ; k t k r k g s f t l l s f d l a ; k R e d v k a M s i k l r g k r s g á A

1/2 xqkRed vkadMs (Qualitative Data) & tc l cfi/kr oKkfud inkFKZ
ifjHk"kkRed dFkukads: i ea0; Dr fd; s tkrsgarksos iz-fr l s xqkRed gkrsgsA

6- **iLrfrdj.k dh fof/k ds i d x ea vkadMs** (Data with references to mode of presentation) & ; s vkadMs rhu izdkj ds gkrsgs %&

1/2 I d ; kRed vkadMs (Numerical Data) & ; s vkadMs I d ; kRed eW; ds
: i ea0; Dr fd; s tkrsgs t s s vf/kdk k ek=kRed vkadMs A

1/2 j[kfp=h; vkadMs (Graphic Data) & ; gkai j vkadMs j[kfp=h; Lo: i
eaiLrfr fd; s tkrsgsA dN i d x ka ea j[kfp=kadksbl fy, cuk; k tkrk gSrkfd
i k Bd cMh I d ; k ea vkadMka dks n' ; vu tkfir ds }kj k l e> l ds A pkVZ vkj
ekufp= bl h Jskh ea vkrsgsA

1/2 irhdRed vkadMs (Symbolic Data) & bl rjg ds vkadMka ds i frdkRed
Lo: i ka ea iLrfr fd; k tk l drk gSA ft l l sn'kd dks HkyHkkfir l e> l ds A
mnkgj.k dsfy; sekS e l s l cfi/kr vkadMka dk irhdRed iLrfrdj.k A

2-3-2 I kekftd foKku ea vkadMka ds izdkj % [Types of Data in
Social Science] &

I kekftd foKku ea Hkh vkadMka dks foHkku izdkj l s foHkfr fd; k gS tks bl
izdkj gSA

1- **eki u ds i sekus ds i d x ea vkadMs** (Data with reference to scale of
measurement) %&

eki u ds i sekus ds vkadMka dks fuEufyf [kr Jf.k; ka ea foHkfr fd; k tk l drk
gS

1/2 I kdsrd vkadMs (Nominal Data) & oS fad bdkbz; kadhi gpku ds: i
ea l d ; kvka dks f/kkzr djus dsfy; s l kdsrd i sekus dk mi ; kx fd; k tkrk gSA
mnkgj.k dsfy; sfo" k; kud kj i qrdka dk oxhdj.k A bl ea Jskh dks crkus dsfy; s
l d ; k fu/kkzr dj nh tkrh gSA D; kkd l d ; k Jskh dsek= uke dk i frfuf/kRo

djrh gSA

1/2 Øel pd vkM (Ordinal Data) & ; g fd; sX; svoykduka dsfy; s fu; r dh xbZ I [; kvka dse/; vki l h l cdk dsØe dk l dr djrk gSA mnkgj .k dsfy; s xFky; depkfj; ka ds0; ogkj ds v/; ; u dsfy; s' kkskkFkhZ fuEu vuq kj Øe fu/kkZjr dj l drk gSA

- 1- [kjkc dks l dr djusgrq
- 2- l k/kj .k dks l dr djusgrq
- 3- vPNsdks l dr djusgrq
- 4- cgr vPNsdks l dr djusgrqA ; gka 1] 2] 3] 4] l [; k, aØel pd vkMgs; sbl ckr dk l dr djrs gsf d l [; k 4] 3 l scgrj gsvk 3] 2] l scgrj gsvkfn ; gka ; g /; ku j [kuk pfg; sfd Øel pd vkMsfhkurk dh fn'kk crkrs gSA ; sfhkurk dh l gh ek=k dk o.ku

ughad jrsA

1/2 varjky vkM (Interval Data) & varjky vkM; vkMka , oa l eku eki u dh fofhku Jf.k; ka dse/; varj dh Jf.k; ka gSA mnkgj .k dsfy; scPpkads l eng i tkrk ka dk eki u dj l drsgSA i R; d cPpsds i tkrk dk l [; kRed eku fu/kkZjr djusdsckn bu vkMka dks 10 ds varjky ds l eng eaj [kk tkrk gSA t\$ s & 0&10] 10&20] 20&30 vkj 30&40 vkfn vkfn A

1/2 vuqkr vkM (Ratio Data) & ; svkMspj dk i fjek.k@ek=kRed ds vFkz ea ek=kRed eki u gsmnkgj .k dsfy; sotu] Åpkb] njh] eW; vkfn A

2- **fujUrjrk ds i l x ea vkM** (Data with reference to continuity) %& bl Jskh ds vkMsfuEu i dkj ds gSA

1/2 l rr~vkM (Continuous Data) & l rr~vkM l hkkfor eW; ka dk

vi fjfer I \mathbb{V} g δ A 0; fDr; ka dse/; vi fjfer I Hkkfor eW; gkrsg δ A mnkgj .k ds fy; sfdl h 0; fDr dk \mathbb{A} pkbzdk dFku , d fuf' pr eW; t \mathbb{S} s160 I seh- vksj ml ds ckn 161 I seh- eaughafd; k tk I drk A ; g 160-59 vFkok 160-89 I seh- ; k 161-59 I seh- ea , d I rr \emptyset e eagls I drk gSA

$\frac{1}{2}$ **foospr vk δ M δ** (Discrete Data)& foospr vk δ M δ i fjfer vFkok x.kuk ; k \mathbb{X} ; eW; @ek=k ea gkrsg δ A mnkgj .k dsfy; s xFkky; dh I nL; I \mathbb{A} ; k A ; g 2525 vFkok 2561 gks I drh gSyfdu 2561-8 ughagls I drh A

3- **fo'k \mathbb{S} krkvka dh I \mathbb{A} ; k ds i \mathbb{A} ea vk δ M δ** (Data with references to number of characteristics) & bl sfuEufyf[kr J \mathbb{S} .k; ka ea foHkkftr fd; k tk I drk g \mathbb{S}

$\frac{1}{2}$, d **pj vk δ M δ** (Univariate Data)& , d pj vk δ M δ ml I e; i ktr gkrsg δ tc voykdu dsfy; s , d fo'k \mathbb{S} krk dk mi ; kx fd; k tkrk gSA

$\frac{1}{2}$ **f}pj vk δ M δ** (Bivariate Data) & f}pj vk δ M δ ml I e; i ktr gkrsg δ tc , d fo'k \mathbb{S} krk ds LFkku ij] , d gh I e; ij nks fo'k \mathbb{S} krkvka dk eki u fd; k tkrk gSA mnkgj .k dsfy; s d{k 12 oha ds Nk=ka dh \mathbb{A} pkbz vksj otu A

$\frac{1}{2}$ **cgpj vk δ M δ** (Multivariate Data)& tc voykdu rhu ; k ml I svf/kd fo'k \mathbb{S} krkvka dks /; ku ea j [kdj fd; k tkrk g \mathbb{S} rks ml I s i ktr vk δ M δ dks cgpj vk δ M δ dgrsg δ t \mathbb{S} s Nk=ka dh ; k \mathbb{X} ; rk] otu] \mathbb{A} pkbz A

4- **I e; ds i \mathbb{A} ea vk δ M δ** (Data with reference to time) & I e; ds i \mathbb{A} ea vk δ M δ dks nks Hkkx ka ea ck δ /k x; k g&

$\frac{1}{2}$ I e; & **J \mathbb{A} kyk vk δ M δ** (Time series Data)& tks vk δ M δ I e; ds vki i kl dky \emptyset eku \mathbb{A} kj vfHkfyf[kr fd; s tkrsg δ mlgs I e; & J \mathbb{A} kyk vk δ M δ dgrsg δ A mnkgj .k dsfy; s foHkku o"ka ea xFkky; ea vft \mathbb{R} dh xbZ i k \mathbb{B} ; & I kexh dh I \mathbb{A} ; k] egkfo |ky; ea i d \mathbb{S} k fd; s x; s Nk=ka dh ok \mathbb{F} "k \mathbb{D} vk/kkj ij I \mathbb{A} ; k A

1/2 ifrfu/; kRed vkaMs (Cross-sectional Data) & ; s vkaMs , d gh
bdkbz ; k fofHku bdkbz, ka l s , d gh l e; fclnql sl cf/kr gkrs gA

5- mRi fuk ds i l x eavkaMs (Data with references to origin) & bl Jskh ea
vkaMs fuEu izkj ds gkrs gA

1/2 i kFed vkaMs (Primary Data) & i kFed vkaMs os vkaMs g ftUgs
'kkkFkhz ds }kjk i R; {k voykdu] x.kuk eki u vFkok l k{kRedkj] iz ukoyh ds }kjk
, df=r fd; k tkrk gSA mnkgj.k dsfy; s i k Bd l o k.k ds }kjk i l r vkaMs A

1/2 f}rh; d vkaMs (Secondary Data) & ; s vkaMs i kFed mis; l s
, df=r fd; s x; s fks v k f d l h i fronu ea izkf'kr gksp ds gA ckn eabu vkaMs adk
mi ; k f d l h vU; mis; dsfy; sfd; k tkrk gSA rks bl s f}rh; d vkaMs dgrs gA
mnkgj.k dsfy; s tul d ; k i fronu] xfk vkfn ds i l r vkaMs; k l dfyr vkaMs A

6- fo'kSkkrk ds i l x eavkaMs (Data with references to characteristic Data) &
bl h Lo; a dh fo'kSkkrk ds vk/kkj ij fuEufyf[kr Hkkxka ea foHkkftr fd; k x; k gSA

1/2 ek=kRed vkaMs (Quantitative Data) & tc voykdu ka dh fo'kSkkrk vka
dh ek=kvka dk fu/kkj .k fd; k tkrk gS rks gea ek=kRed vkaMs feyrs gA ek=kRed
vkaMs iz, Dr fo'kSkkrk vka dsek=k dseki u ds }kjk i l r gkrs gA mnkgj.k dsfy; soLrq
dk eW; , oaotu vkfn A

1/2 xqkRed vkaMs (Qualitative Data) & tc voykdu dh fo'kSkkrk xqk
gkrs gS rks gea xqkRed vkaMs feyrs gA mnkgj.k ds fy; s 0; fDr dk jax vFkok
cf) eUkk A

vkaMs adh iz-fr dk ft l oxZI sog l cdk j [krk g] ml ds vk/kkj ij l e>k tk
l drk gSA foKku ea 6 enyHkur izkj ds vkaMs feyrs g v k f t Ugs 15 fofHku oxka ea
foHkkftr fd; k x; k gSA ek=kRed] l d ; kRed vkaMs gkrs gA v k f v f / k d k k vkaMs
ek=kRed gkrs gA

bl h rjg l keftd foKkuka ea Hkh vkadMka dh iz-fr dk fu/kkj.k l Hko gS
 l keftd foKkuka ea vkadMka dh iz-fr ; k rksO.kkRed gkrh gS; k x.kukRed A tc Hkh
 x.kukRed : i l svkadMsi kr gksrsgarismudh iz-fr x.kukRed gkrh gS vkj tks vkadMka
 ?kVuk ; k oLrqdk o.ku djrsgarismudh iz-fr o.kkRed gkrh gSA

2-4 MKVk dk {ks= (Scope of Data) %&

MKVk dk {ks= dkQh foLrr gkrk gS vkj fofo/k fo"K; ka ds varxr 'kksk v/; ; uka
 eabl dk fo'kSk egRo gSA MKVk ds vHkko ea l puk , oaKku dh mRi fuK l Hko ughagSA
 MKVk ds {ks= dk v/; u fuEufyf[kr nf"Vdks ka ds vk/kkj ij fd; k tk l drk gS %&

**1- MKVk dh mi ; kfxrk (Utility of Data) & Kku ds fodkl ea MKVk dh fo'kSk
 mi ; kfxrk gkrh gSA MKVk ds vHkko ea dkbZ Hkh 'kksk] vUoS.k] fujh{k.k] ij h{k.k
 vkfn l Hko ughagS l drk A mi ; Dr MKVk ds mi ; kx ds vHkko eafu.kz u iz kkyh
 dk; Zughadj l drh A fd l h l eL; k dk l ek/kku ughagS l drk vkj fd l h Hkh
 fu; kstu dks dk; Z: i ugha fn; k tk l drk A**

**2- MKVk dk foLrkj & v/; ; u fo"K; {ks= l s l af/kr MKVk dk foLrkj MKVk ds
 rRo] MKVk cd] l o{k.k fof/k] l k{kkRdkj] voykdu fof/k vkfn l feefyr gksrsga**

**3- MKVk dk dky& fd l h Hkh 'kksk l eL; k ds fy; s MKVk dk l xg djrs l e;
 ml ds l e; dks vo'; baxr djuk pkfg; sA ; g Li"V : i l scrkuk pkfg; sfd
 MKVk l kef; d ; k l p; h A**

i qrdky; l okvka ea MKVk dk egRo cgqr; keh gSA i qrdky; k/; {k dbZ l idkj
 l s MKVk ds mi ; kDrk gksrsga os fofo/k idkj dh l ok, a mi yC/k djkus gsrq xFkkRed
 MKVk l xgr djrsga vkj v-&x FkkRed MKVk dk mi ; kx l okvka ds idku gsrq djrsga
 A l kFk gh l kFk 'kkskdrkzka , oafu; kstudka dks mudh ekax vkj vko'; drk dk MKVk
 mi yC/k djkus dh nf"V l sml dk l xg.k djrsga vr%; g vko'; d gSfd i qrdky;
 ea l kef; d vkj fo'ol uh; MKVk L=kr mi yC/k gkus pkfg; sA l puk Kku vkj ekuo
 fO; kdyki dk dkbZ Hkh , s k {ks= ugha gS t gka MKVk vko'; d u gSA l Hkh 'kksk , oa

vlošk.k ds dk; ZMKVk ds i kj tk gkrsgā vlsj MKVk ij gh l ektr gkrsgābl izkj MKVk
dk {ks= foLr r vlsj cgyrk; keh gSA

2-5 oSkfud , oarduhdh MKV%&

I puk dksfdl h jk"V^a dsfodkl vlsj izfr dsfy; svU; ik—frd l ā k/kuka tS s
mtkz dks ykj yksgkj i kuh vkfn dh Hkkār , d egRoi wkZ l ā k/ku ekuk x; k gSA jk"V^a
fuekZ k ea bl dk fuošk egRoi wkZ gSbl s, d vfr vko' ; d oLrj 'kfDr vkfn dh l ā ; k
Hkh nh tk l drh gSA okLrfodr k ; g gSfd jk"Vh;] vkfFKZd] vlsj kSxd] 'kSkf.kd rFkk
l kekftd fodkl , oamlu; u dsfy; s l puk , d vko' ; d l ā k/ku gSA fd l h Hkh dk; Z
ds iz kl dk i kj tk l puk l sgh gkrk gSA ft l ds vHkko ea izfr l Hko ugha gSA l puk
ekuo ds i R; d {ks= vlsj fØ; kUo; u ea0; Lr gsvlsj budk vHkko rFkk vufHkKrk l ekt
rFkk jk"V^a dks l 'kDr vlsj fodfl r gkuseack/kd fl) gkrk gSA bu l puk dks i klr
djus dsfy; soSkfud vkadMs, oarduhdh vkadMs-dh vko' ; drk gkrh gSA vkadMk adk
ifj"—r : i gh l puk gkrk gSA bu l puk ds ek/; e l sgh jk"V^a mluf r] izfr , oa
cgeq[kh fodkl gkrk gSA

2-6 MKV i Lrfrdj.k %&

MKV i Lrfrdj.k vuq akku i fØ; k dk , d egRoi wkZ pj.k gSft l ds }kj k l ad/
kr 'kSk l eL; k ds fofHkUu i gyyka dh tkudkj h vl kuh i wZd i klr gks tkrh gSA
i Lrfrdj.k vR; r l jy , oatul kekl; ds vuq kj gkuk pkfg; sbl ds }kj k l ekurk vlsj
vl ekurk Li"V : i l s fn [kkbZ nsuk pkfg; s A bl dks ns[kdj fofHkUu Jf.k; ka dk
ryukRed v/; ; u Kku gkuk pkfg; s A i Lrfrdj.k ea l k; dh; dks l f[klr : i ea
n'kkz k tkuk pkfg; s A i Lrfrdj.k dh fuEufyf[kr fof/k; ka gā (i) Table (ii) Chart (iii)
Graph (iv) Curves

(i) Table ¼ kj .kh½ %&

MKV i Lrfrdj.k dh , d egRoi wkZ fof/k l kj.kh fuekZ k gS rFkk l kj.kh ds }kj k
MKV i Lrfrdj.k dh i fØ; k dks l kj.kh; u dgrsgā A l kj.kh }kj k MKV i Lrfrdj.k

vR; r I jy vks vki kuh i wzd I e>us; kx; gkrk gSA bl ds }kjk tfVy MKVk I jy
 Lo: i eai fjo fr r gks tkrsgaA bl ds }kjk U; ure I Hko LFkku eavf/kdre I puk inku
 dh tk I drh gSA I kj.kh dh I gk; rk I sfofHku Jf.k; kadksnyukRed v/; ; u I jyrk
 I sfd; k tk I drk gSA I kj.kh i Lrfrdj.k }kjk MKVk dh fNi h fo' kSkrrk, aHkh I keusvk
 tkrh gSMKvk dh I gk; rk I s=qV; kadksHkh Kku fd; k tk I drk gSA MKVk dh I gk; rk
 I sl xfgf fd; sx; sMKvk dks I qe Lo: i eai Lrfr fd; k tk I drk gSA I kj.kh ds: i
 I ka; dh; x.kuk vkd"kd Lo: i eai Lrfr dh tk I drh gSA

I kj.kh ds ied[k Hkx %&

I kj.kh ds ied[k Hkx fuEufyf[kr gsa %&

- 1- **I kj.kh Øekad &** fdl h Hkh I kj.kh ds I ca/kr I kj.kh dk I anHz i klr gkrk gSA
- 2- **I kj.kh dk 'kh'kd &** I kj.kh Øekad ds uhs I kj.kh dk 'kh'kd fy[kk tkrk gS
 ftI ds }kjk I kj.kh dk m's; Li"V gks tkrk gSA 'kh'kd vR; r I ko/kkuh i wzd
 fn; k tkuk pkfg; sA ; g u cgr vf/kd cMk gks vks u cgr vf/kd Nks/k A
- 3- **ds'ku %&** iR; d I kj.kh eavud dkye gkrsgfd I h Hkh dkye ds 'kh'kd dks
 ds'ku dgk tkrk gSA dHkh&dHkh I Hkh dkyeI dsfy; s, d I keku; 'kh'kd inku
 dj fn; k tkrk gSA ftI sekLVj dsk'ku dgrsga] vko'; drkuq kj dkye dks i q%
 mioxka eafokkfr dj I drsgaA
- 4- **Lvc %&** iR; d I kj.kh ea iR; d i adR; ka gkrh gsa I Hkh i adR; ka ea i Fkd : i I s
 'kh'kd fn; k tkrk gSA bu 'kh'kd dks Lvc dgrsga dHkh&dHkh I Hkh i adR; ka dsfy; s
 , d I keku; 'kh'kd dk gh mi ; kx fd; k tkrk gSA bu 'kh'kd ka dks Lvc gM dgrs
 gsaA
- 5- **ckmhp %&** ; g fdl h Hkh I kj.kh dk I okz/kd mi ; kxh Hkx gSA I kj.kh ea i Lrfr
 fd; sx; sA I eLr I ka; dh; vfhky[k feydj I kj.kh dh ckMh fufe r djrsgaA

fofHku I ka[; dh; dk i Lrfrdj.k , d I sy %Cell½ ds: i eafd;k tkrk gSA ; g

Stub Head	Ref. Ser.	Issue Ser.	Periodical Ser.	CAS/SDI
Stub R.D.V.V.	Cell	Cell	Cell	Cell
Stub Vikram	Cell	Cell	Cell	Cell
Stub Devi Ahilya	Cell	Cell	Cell	Cell
Stub Jiwaji	Cell	Cell	Cell	Cell

Specimen Table

Body



2-7 I adyu , oaeW; kdu MKV/ka

2-7-1 MKV I adyu&

'kkdkrkz dk iedk mis; 'kkk v/; ; u dsfy; srf; I kexh dk I adyu djuk gkrk gSA MKV ds I adyu dsfy; sog mu L=krka dh [kkst djrk g\$ ftl I s'kkk v/; ; u dsfy; si; klr ek=k eaMKV mi yC/k gkl dsA MKV ds L=kr dk fu/kkj .k djus eafjdYi uk; a , oa'kkk i k: i dk Hkh dkQh ; ksnku gkrk gSA 'kkdkrkz vi us v/; ; u dsfy; smUgh MKV dk I adyu djrk g\$ tksml ds }kjk jfpr ifjdYi ukvka }kjk ; k rks Lohdkj dj fy; stk; a; k vLohdkj dj fy; stk; aA 'kkdkrkz }kjk I adfyr MKV ftrus vf/kd fo'ol uh; gkrsg\$ 'kkk v/; ; u ds }kjk o\$Kkfud , oami ; ksch fu"d"knuk I Hko gks tkrk gS, d h n'kk ea i R; ad 'kkdkrkz MKV ds I adyu dsfy; sdoy mu ifof/k; ka , oa i) fr; ka dh I gk; rk vFkok mu L=krka dh [kkst Hkh djrk g\$ ftul s'kkk v/; ; u dsfy; smi ; pr MKV I adfyr gkl dsA

'kkk v/; ; u ea {ks=h; ; k iy\$kh; vk/kkj ij 'kkdkrkz tks led I adfyr ; k , df=r djrk g\$ og MKV dgykrk g\$ bu vkaMka dk i fO; k djus i'pkr 'kkk g\$ q I puk dk I adyu fd; k tkrk gSA

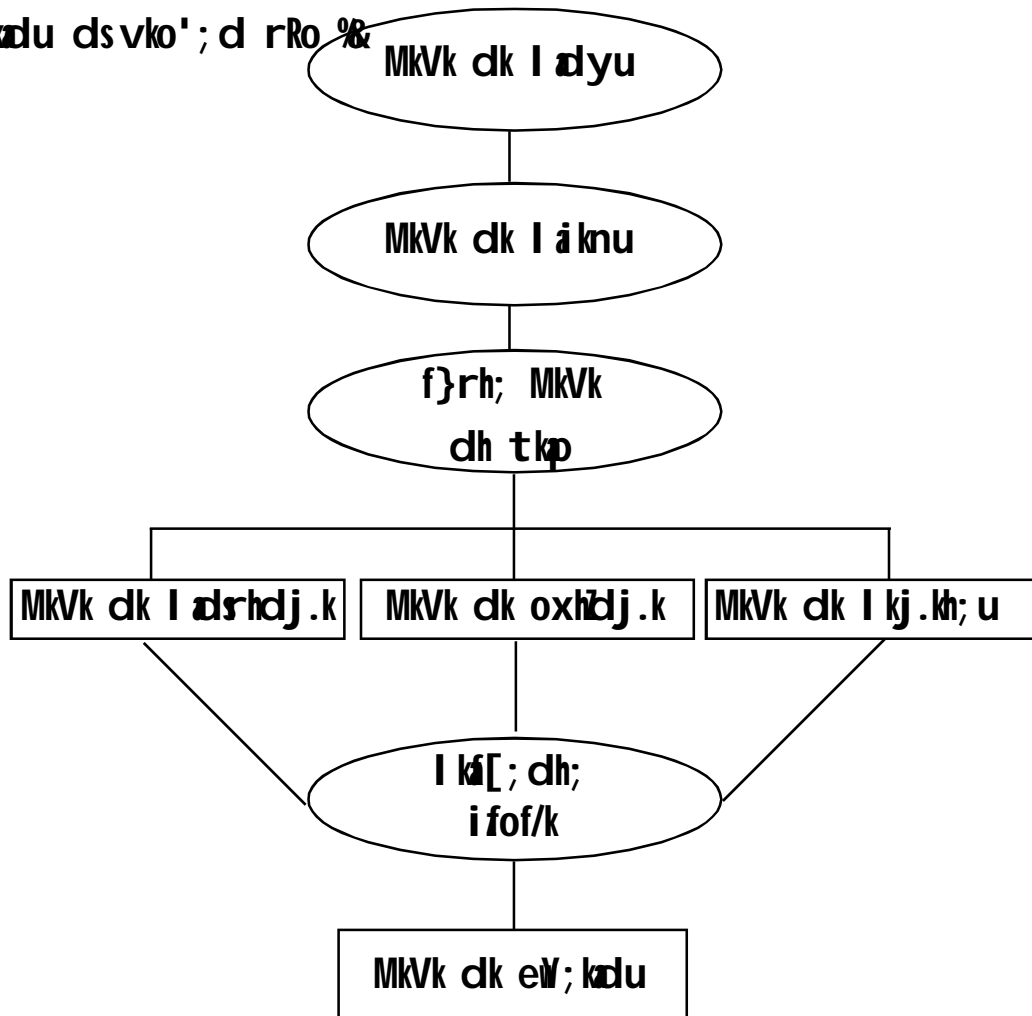
2-7-2 eW; kdu %

'kkskdrkz }kjk 'kksk v/; ; u dsfy; s l d fyr fofHkUu i d kj ds v k d M s brus vf/ kd t fVy , oav0; ofLFkr gkrsgafd mudks l e>uk , oamul s rdZ i wkZ vFKZ fudkyuk cMk ef' dy gkrk gSA bl fy, 'kksk v/; ; u dh f0; k ea 'kkskdrkz }kjk MkVk ds l dyu ds i 'pkr , d f0; k }kjk bu v k d M k dks l a kfnr , oa 0; ofLFkr djds mlgs fofHkUu l kf.f.k; kaefoHkkt r djds mudk rd i wkZ vFKZ fudkyuk tkrk g\$ ft l sMkVk dk eW; kdu dgrsgA

bl i d kj ge dg l drsgafd MkVk dk eW; kdu l MkVk ds l dyu ds ckn dh f0; k g\$ bl f0; k dsfcuk , d 'kkskdrkz vi us m i s ; ka dks i klr ugha dj l drkA

l d fyr MkVk dks l 0; ofLFkr mfpr l kj .kh; u djds Loh—r fof/k }kjk mul s rd i wkZ vFKZ i klr djuk gh MkVk dk eW; kdu dgykrk gSA

eW; kdu ds v k o ' ; d rRo %



eW; kdu dsvko' ; d rRo %&

- 1- ; g MKVk ds l dyu dsckn dh fØ; k gSA
- 2- ; g , d oKkfud i fØ; k ds l kFk , d oKkfud eW; kdu Hkh gSA
- 3- bl dsvrxr l adfyr MKVk dk l kj.kh; u djds mudk eW; kdu fd; k tkrk gSA
- 4- bl ea l kã[; dh; fof/k; ka; k rdka dsvk/kkj ij MKVk l srdZ i wkZ vFKZ i klr fd; k tkrk gSA

2-8 bdkbz i rhd] ek=kRed vkadMs %&

Kku ds fodkl , oa of) ea vkadMka dk cMk egRo gS vkadMka dks bdkbz ds : i ea eW; kdr fd; k tk l drk gSA vkadMs i rhd ds : i ea, oaek=k ds : i ea Hkh mi yC/k gks gSA i ; klr vkadMs ds mi ; kx ds fcuk dkbZ Hkh fu.kZ; yus okyh izkkyh dk; Z ugha dj l drh vFkok fd l h Hkh l eL; k dk l ek/kku ugha [kstk tk l drk A i ; klr vkadMka ds vHkko ea dkbZ Hkh ; kst uk eirZ : i ugha ys l drh vkadMka fopjka dks cnys gS vSj vfuf' prrk dks nij djrs gSA 'kSk ; kst uk vSj fu.kZ; yus ds fy; s vkadMka vi fjk; Z gSA bl h rjg dgk tk l drk gS fd xFkky; ka vSj xFkky; l okvka eamfpr izaku ea vkadMka dk egRo ; k mi ; kx de ugha gSA

2-9 [kstk l gk; d %&

vkadMka ds foopu ea l kã[; dh ds }jkj vuq akku ea cgr l gk; rk feyrh gS xqkkRed vSj x.kukRed fof/k; ka }jkj vkadMka dk l dyu dj yus ds ckn mudk i kjLi fjd l adk Kku djuk vuq akku dk , d egRo i wkZ Øe gS bl l adk dsvk/kkj ij gh MKVk dk fuopu vSj l keLU; hdj.k l Hko gSA vr% l kã[; dh fof/k; ka dk mi ; kx fur; i fr c<fk tk jgk gSA

l kã[; dh fof/k; ka ea 0; fDr l s/; ku gVdj MKVk ij dflær gks tkrk gS fofHkku bdkbz ka dh fo'kSk rk l ekr gks tkrh gS vSj fof'k"V l egka dk v/; ; u fd; k tkrk gS bl izkj rF; ka dk l a[; kRed foopu vuq akku ea vR; f/kd egRo i wkZ gSA

2-10 I kjka k%

bl bdkbZeageusMkVv dk vFkZ i fjHkk"kk , oaMkVv ds i zdkjka dh 0; k[; k
dh]l kFk gh ; g Hkh mYyF[kr fd; k fd MkVv ds i zdkjka ea fhkUurk gkrh gSo ; g ns[kk
gSfd MkVv dk i Lrfrdj.k ds sfd; k tkrk gsvks dks I h fof/k vi ukbz tkrh gSAMkVv
ds I dyu] eW; ka du ds fy; s dks & dks I svko'; d rRoka dh vko'; drk gkrh gA
I ka[; dh i fof/k }kj k vuq dku dk; ZeaMkVv dk I dyu , oa eW; ka du I Hko gSA

2-11 Lo&tkp vH; kl &

- 1- MkVv I svki D; k I e> rsga\
- 2- foKku eaMkVv ds i zdkj crkb; sA
- 3- vfHk0; fDr ds I cak ds i zdkj ea vka dks I e> kb; sA
- 4- MkVv i Lrfrdj.k dks I e> kb; sA

bdkb&2

MkVv (DATA)

- 2-0 fo"i; i DŠk &(Introduction)
- 2-1 mÍŠ ; (Objectives)
- 2-2 MkVv dk vFkZ (Data : Meaning & Definition)
 - 2-2-1 MkVv dk vFkZ
 - 2-2-2 MkVv dh i fjHkk"kk (Definition of Data)
- 2-3 MkVv ds i Dkj (Types of Data)
 - 2-3-1 foKku eaMkVv ds i Dkj
 - 2-3-2 I kekftd foKku eaMkVv ds i Dkj
- 2-4 MkVv dk {ks= (Scope of Data)
- 2-5 oŠkfud , oarduhdh MkVv (Scientific & Technical Data)
- 2-6 MkVv i Lrfjdj.k (Generation & Presentation of Data)
- 2-7 MkVv I dyu , oaeW; kdu (Collection & Evaluation of Data)
 - 2-7-1 MkVv I dyu
 - 2-7-2 eW; kdu
- 2-8 bdkb] i rhd] ek=Red vkM]s (Unit, Symbol & Nomenclature Data)
- 2-9 [kst I gk; d (Seeking Help)
- 2-10 I kjkák (Let us sum up)
- 2-11 Lo&t k p vH; kl (Self Check exercise)

- 3-0 fo"k; i d'sk (Introduction)
- 3-1 mnns'; (Objectives)
- 3-2 I pkj dh i fjHkk"kk (Definition of Communication)
- 3-2-1 I pkj ds ?kVdka dh i fjHkk"kk
(Definition of Communication Components)
- 3-2-2 I ekt eal pkj (Communication in Society)
- 3-3 I puk dh vko' ; drk (Information Need)
- 3-3-1 I puk okrkoj .k (Information Environment)
- 3-3-2 I puk i klrdrkZ (Information Recipients)
- 3-3-3 I pkj dsp&YI (Channels of Communication)
- 3-4 I kjk&k (Let us sum up)
- 3-5 Lo tkp vH; kl (Self check exercise)

3-0 fo"k; iDšk (Introduction)

; g bdkbz I pkj] I puk vko'; drkj , oa I pkj ra= dsfofHku igy/ka l s
I æf/kr gSA I pkj 'kCn dk vFkZ i kf.k; ka dschp I pukvka ds vknku inku l s
I æf/kr gSA I pkj dsfy, ek/; e vko'; d gšfcuk ek/; e I pkj I Hko ugha gSA
I pkj dk viuk , d vyx ra= gkrk gSo bl ea I pukvka dks I pkj ds l k/kuka }kjk
gh tu tu rd igppk; k tkrk gSA bl ds vykok I pkj dh l ekt ea D; k
vko'; drk gS]bu l cdk v/; ; u bl bdkbz eadjaA

3-1 mnnš; % (Objectives)&

bl bdkbz ds v/; ; u dsi 'pkr vki I pkj] I pkj dsfofHku pšYI] l s t/Is i {kka
l s voxr gk i k, aks rFkk fuEufyf[kr vo/kkj .kkvka ij l e> fodfl r dj i k, æ&

- I pkj D; k gS?
- I pkj ds ?kVd dka l sgS, oa l ekt ea I pkj dh D; k vko'; drk gS?
- I puk dh D; k vko'; drk gS?
- I pkj dsfofHku pšYI dka l sgS?

3-2 I pkj (Communication) &

euq; , d prui k.kh gA prurk dsdkj .k ml dsefLr"d ea l e; l e; ij
rjg rjg dsfopkj l ftr gkrs jgrsgš blgh mRi lu fopkjka dks I puk dh l kK nh
tkrh gA rFkk blghal pukvka ds vknku inku dsfy, I pkj dh vko'; drk gkrh gS
I pkj dh 0; i fRr l æf/kr /kkj .kk dksn[ka rks I pkj vi usvki ea I pukvka d vknku
inku gSft l ea I pukvka dh Hkxhnhkj h gš forj .k ds i fr U; k; gSA l epk; vkš
calko I pukvka ds vknku inku ea gSA tks I pkj dk eny vFkZ gSog bl dh tMka ea
fufgr gSA I pkj 'kCn dh mRi fRr yšVu 'kCn dE; muds j l sgšZ gS] ft l dk vFkZ
gS, d nll js l sskr djuk] i jke'kZ] Hkk" k.k ; k i opu] ppkZ bR; kfn A

I pkj I pukvka vkš I ns'kka dsek/; e l svknku inku dh i kjLi fjd fØ; k gS
A l ns'k u rksLoxZ l svkrsgš vkš u gh budh j puk 'kll; ea gkrh gSA ; g ykxka
}kjk l pfjr gSaA l kekt d] vkfFkZ d] jktu s rd vkš I ka d frd okrkoj .k ea jgus
okys l epka }kjk jps; k cuk, tkrsgSA

I þkj dk mnæs; oþkfjd /kjry ij I gHkkfxxrk vFkok I k>nkjh LFkfi r djuk
gkrk gA I þuk Økár dsbl ; q ea I þkj ijEijxr ek/; eka ij vkfJr u jgdj
vk/kfud thou dh vifjgk; Z oLrqcu x; k gA oLrq% I þkj 0; oLFkk vkš I þkj
izkkfy; ka l fEefyr #i I sl þkj dks I þkj m | kx ds: i eafodfl r djrh tk jgha
gA I þkj Lor%vkš fujrj I þkfjr gkusokyk i þkg gS tksfdl h mnæs; dsfy,
fd; k tkrk gSA

ifjHk'k (Definition)

vDI QMIZ bky'k fMD'kujh ds vuq kj %& *fopkjka Hkkoukvk Kku vkš I þuk
dh okrkýki] y[ku] I d rka vFkok fpugka }kjk vfHk0; fDr ; k fofu; e I þkj dgk
tkrk gA*

dkyfc; k bui kbDyki fM; k vKd dE; fudšku ds vuq kj %&
* fopkjka dk vnku&inku vFkok LFkkukUrj.k I þkj dgk tkrk gA *

,Mfou ,; jh ds vuq kj %&
* I þuk] fopkjka vkš vfHkofRr; ka dks, d 0; fDr I snw js0; fDr rd I Ei š'kr djusdh
dyk dk uke I þkj gA *

'Kiu ,oaohj ds vuq kj %&
I þkj dksfoLr vFkZea iz kx dj I drsgš ft I dsvLrxr osl Hkh i fØ; k, avkrh
gš ftuds }kjk , d efLr"d n w jsefLr"d dks i Hkkfor djrk gA bl ea døy ekš[kd
; k fyf[kr gh ugh cfYd I xhr] dykdfrd] jæep] fl uek] uR; &ukV; rFkk ekuoh;
0; ogkj ds I Hkh : i gks I drs gA

1- fdl h , d 0; fDr }kjk n w js0; fDr rd vFkok fdl h , d 0; fDr rd vud
0; fDr; ka }kjk dN I kFkZd fpugka] I d rka ; k irhdka ds I á šk.k I sl þuk
tkudkj] Kku ; k eukHkko dk vnku inku djuk I þkj gSA

I þkj 0; fDr dks, d I kkkj.k I e> fodfl r djusij tkj nrk gSA
; g fopkjka dks vfHk0; Dr djusdk I kku gSA ; g I þuk dk , d vko'; d ?kVd gS

I kekU; 0; ogkj eafØ; k ds : i ea l pkj dk rRi ; ZgS%
 ¼½ fopkj k Hkkoukvk vks I pukvka dk fofue;
 ½½ i fjfpr djukj
 ¾½ rF; k I pukvka vkfn dks l oZ l kekU; djuka

I Kk ds : i ea l pkj dk rRi ; ZgS%
 ¼½ l dsrkdk i rhdk I kekU; l ns kka rFkk I pukvka dk fofue;]
 ½½ l eku i rhdk }kj k I kekU; l pukvka rFkk l ns kka dk fofue;]
 ¾½ fopkj ka dks vfHkO; Dr djus dh dyk
 ¼½ l puk I Ei k.k

fu"d"l ds : i ea dg l dra gdfd ekuo l pkj , d tVY xrfof/k gft l dh
 tVYrk l sge l kekU; r% voxr ugh gkr; tcf d ge fuj rj okrkzki dju; l pu;]
 i <u; fy [ku; Vsyhohtu ns [ku; jSM; ks l pu; vkfn eaO; Lr jgrsgA ; g l c ifØ; k, i
 okLro ea l pkj gh gA+

3-2-1 I pkj dsrRo (Components of Communication):-

vut[ko] Kku] l onuk] fopkj vks ; gk rd fd vlRro eagkusokys ifjorZka
 dh l gHkkfxrk gh l pkj gsvks l gHkkfxrk dh ; g ifØ; k gh l pkj & ifØ; k dgykrh
 gA l pkj ifØ; k varghu vks fuj rj pyusokyh ifØ; k gsft l ds vllrxr l eLr
 ekuo l ekt l fEefyr jgrk gA l pkj ifØ; k eae[; r% fuEu rRo l fEefyr gkrsgA
] tksfeydj bl dks ijk djrs gA%



bl idkj Li"V gkrk gs fd l pkj ifØ; k L=kr@l pkjd vks iki d ds e/; ijLij
 vknku&inku dh fØ; k, i gA l pkj , d fuj rj pyusokyh ifØ; k gsft l ea iR; d 0; fDr vFkok
 l lFkk l pkjd@L=kr l ns k if'kr djrs gA rFkk iki d ml sikr djrs gA

I pkj ifØ; k dsrRo (Components of Communication Process) :-

fd l h Hkh l pkj ifØ; k dks i Hkko vks vFkz wZ cukusea ml ds rRoka dh Hkfedk
 egROI wZ gkrh gA l pkj ifØ; k eae[k : i l sfuEufyf [kr enyHkr rRo l fEefyr gkrsgA%

i) **Information Source/Communicator** :-

L=kr dk l keld; vfhkik; ml LFky l sgs tgg; l s l pukj l ansk vFkok l ekpkj dh mRi fRr gkrh gA l puk dk L=kr , d 0; fDr] l ekt vFkok l lFkk dkbZ Hkh gks l drk gA ; g l pkj i f0; k dk vkj fEHkd fclnqgkrk gA , d xBFk ds l mHkZ ea ml xBFk dk y[kd l puk L=kr dgk tk l drk gA fo'k"V v/; ; u {ks= ea dk; j r 'kkskdrkzvksj fo"K; fo'kSkK vFkok oSkkfud tks l puk dsmRi knu ea l g; ksx ns jgs gA mlgs Hkh l puk dk L=kr dgk tk l drk gA bl Hkkfr l puk ds L=kr 0; fDr] l lFkkj l ekpkj&i=] j fM; k\$ Vsyhfotu bR; kfn gks l drs gA vFkok og l keftd ?kVukvka l s Lor% mRi uu gks l drk gA bl idkj L=kr }kj l puk mRi kfnr gkrh gA

l Ei kkd ; k l pkjd l puk i f0; k dks f0; kflor djrk gA l Ei kkd dh eukofRr dk jkrk ij l h/kk i Hkko i Mrk gA vr% l pkjd ea i wkZ vkRe fo'okl gksuk pkfg, A oLrq% ml sfo"K; oLrqdh vPNh l e>] mfpr ek/; e dk p; u rFkk i ki d dh fo'kSkrvka dh tkudkjh gksuh pkfg, A Hkk"kk; h dksky l pkj i f0; k dh l Qyrk ds fy, vko' ; d gA bl ds vHkko ea l Ei kkd vi usfopkjka dks i Hkko' kkyh <x l sy{; rd ugha i gpk l drkA

ii) **Message** :-

p; fur l puk vFkok vi usfopkjka dks l Ei kkd ckydj] fy[kdj] fp= vFkok l drs ds }kj l zLrq djrk gA rc og l ansk dgykrk gA ; g l puk L=kr ds eny fopkjka dk vFk i wk <x l s i frfuf/kRo djrk gA fdl h xFk vFkok vkys[k ea fufgr l puk y[kd ds fopkjka ; k nll js 'kCnka ea ml ds l ansk dks inf'kr djrh gA l ansk vi us d n fu/kkZjr i frekuka ds vk/kkj ij l kdj : i /kkj.k djrk gA bl ea Hkk"kkj vFkZ l mHkZ Lo: i vkfn egRoi wkZ gksrs gA l ansk fyf[kr] ekS[kd] l drs vkfn fdl h Hkh : i ea gks l drk gA

iii) **Language** :-

; g l ansk dk vx gA ; g og Hkk"kk gkrh gSft l ea l puk ; k Kku dks inf'kr fd; k tkrk gA bl sge l ansk dks gLrkrfjr djusokysokgd ds: i eaeku l drs gA l ansk dks gLrkrfjr djus ds fy, , d h Hkk"kk dk mi ; ksx fd; k tkuk pkfg, tks vkl kuh vksj Li"Vrk l smi ; ksdrrkZ dks l e> vk l dA vr% Hkk"kk dk l k/kkj.k ; k l jy gksuk vfrvko' ; d gA l kFk gh ekud 'kCnkoyh dk iz ksx fd; k tkuk pkfg, A

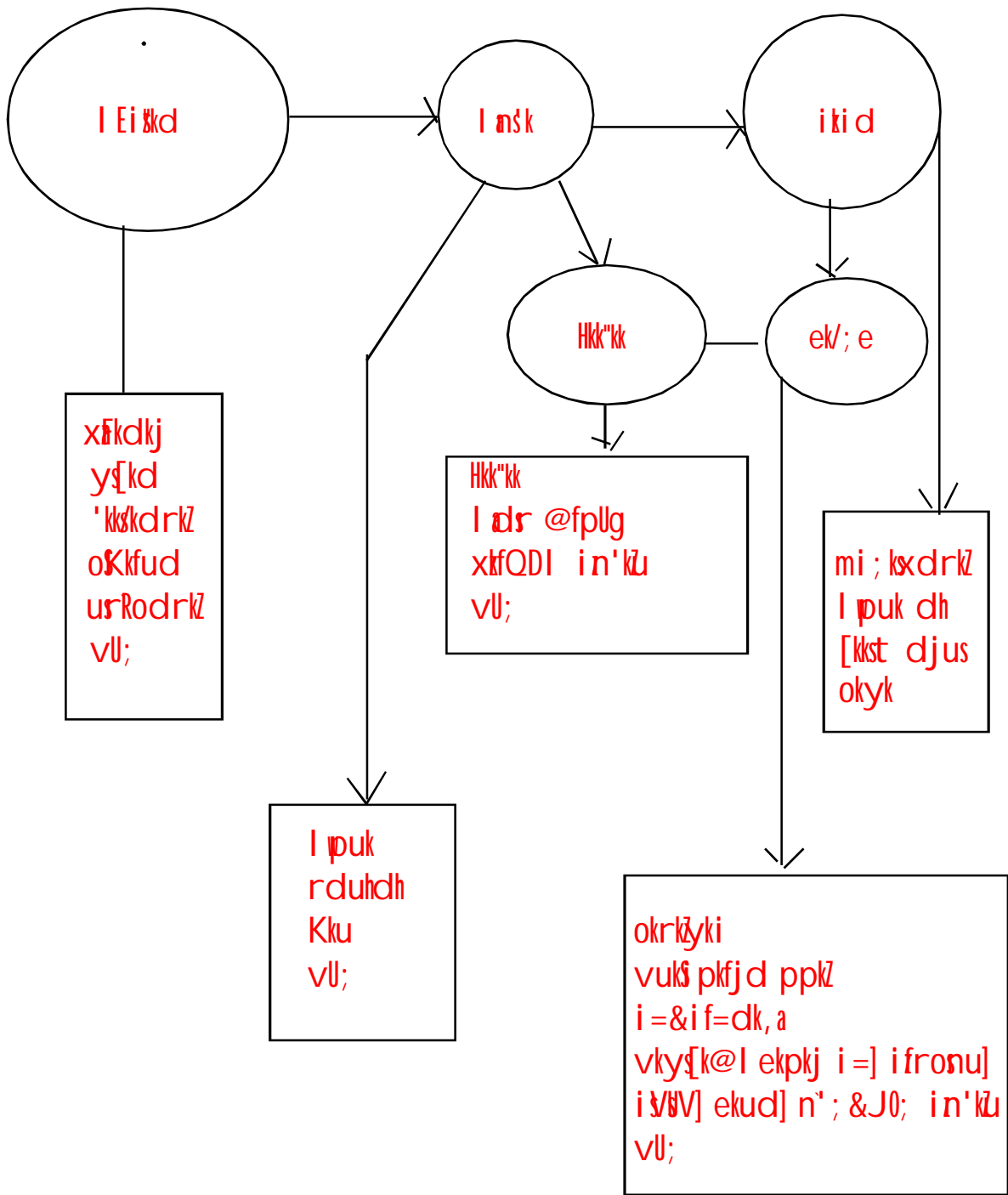
iv) I þkj ek/; e (Communication Medium) :-

L=kr I s l Ei f"kr fd, x, I nsk dks ikr djus okyk 0; fDr ; k mi dj.k i ki d dgykrk gA byDVteSufVd I þkj izkkyh] VsyhQku] Vsyhfi BVj] Vsyhfotu] dEI; Wj vkfn I þuk dsiki d ds: i eatkustkrsgA ni js' kCnkaeage dg I drs gA fd ekS[kd I ðkn I þkj ds vlrXr I þus okyk 0; fDr iki d gkrk gS vkS byDVteSufVd I þkj i fØ; k ds vlrXr fofHku mi dj.k tS s VsyhQku fjI hoj] Vsyhfotu I s] dEI; Wj vkfn iki d gkrsgSfdUrqvflre xUr0; ; k xUr0; LFky ds 0; fDr ; k 0; fDr; ka dk I eug gkrk gSftudsfy, I nsk i f"kr ; k i d kfjr fd; k tkrk gA bl izdkj ftu 0; fDr; ka ; k I eugka dsfy, I nsk dk egRo gkrk gS mu rd igpkuk gh I nsk dk xUr0; LFky gkrk gA

v) i ki d vFkok xUr0; LFky (Receiver or Destination) :-

L=kr I s l Ei f"kr fd, x, I nsk dks ikr djus okyk 0; fDr ; k mi dj.k i ki d dgykrk gA byDVteSufVd I þkj izkkyh] VsyhQku] Vsyhfi BVj] Vsyhfotu] dEI; Wj vkfn I þuk dsiki d ds: i eatkustkrsgA ni js' kCnkaeage dg I drs gA fd ekS[kd I ðkn I þkj ds vlrXr I þus okyk 0; fDr iki d gkrk gS vkS byDVteSufVd I þkj i fØ; k ds vlrXr fofHku mi dj.k tS s VsyhQku fjI hoj] Vsyhfotu I s] dEI; Wj vkfn iki d gkrsgSfdUrqvflre xUr0; ; k xUr0; LFky ds 0; fDr ; k 0; fDr; ka dk I eug gkrk gSftudsfy, I nsk i f"kr ; k i d kfjr fd; k tkrk gA bl izdkj ftu 0; fDr; ka ; k I eugka dsfy, I nsk dk egRo gkrk gS mu rd igpkuk gh I nsk dk xUr0; LFky gkrk gA

I nsk ds i p% i k.k dk Øe rc rd pyrkJgrk gStc rd fd I nsk i ki d ; k xUr0; ½y{; ½rd igp ugh tkrkA dHkh&dHkh I þkj ek/; eadh I hek dsdkj.k I nsk dN ykxka rd gh igp ikrk gA fdl h Hkh I þuk ; k I nsk dk xUr0; LFky I þuk dh i þfRr , d mi ; k fXrk ds vk/kkj ij fu/kkZjr gkrk gA I þkj ds fHku ?kVdka dks fp= 1 ds }kjk n'kkZ k x; k gSA



fp= 1& I p'kj ds/kVd

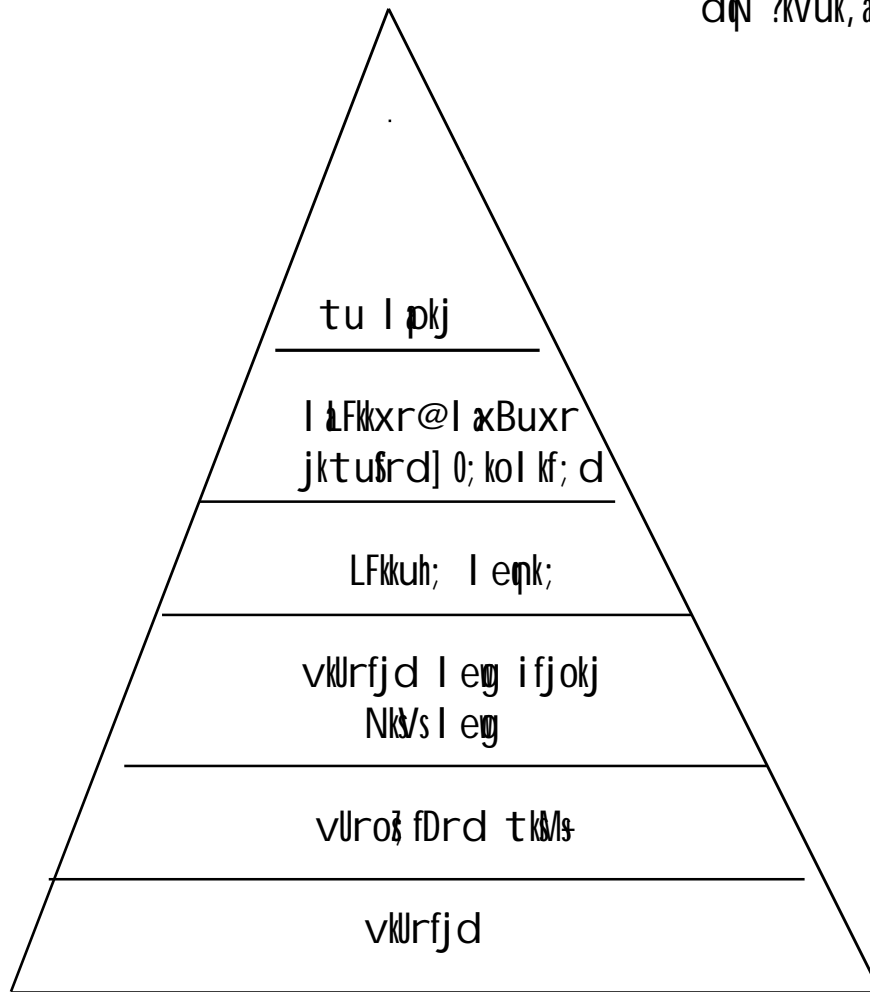
3-2-2 I ekt esl þkj (Communication in Society) :-

; fn I þkj JSB mnns; ka dsfy, dk; Zughadj jgk gS vksj VDUkyklth vkn'sk dsrgr vkfJr gS oju ekuo i xfr us vksj ksd Økar ds vksx ifjorðu dj fy; k gA I ekt ds, d Nks/s i jUrql 'kDr oxZ dsfu; U=.k ea pyk, tk jgsfo'kky ehfM; k I xBu dksedr ughadjk; k tk I drkA c'skd ; s Nks/s I xBu ; k Nks/s Hkkx jktufrd vksj vkfFkZd : i ea I 'kDr gS vksj /kfeZd] jktufrd] vkfFkZd] 0; kol kf; d vksj VDUkyklth ds I þkj ea e/; LFk gA

I keftd] I ka dfrd ifØ; k ea I þkj dh dN I S kfrd vo/kkj .kkvka dks I e>A I þkj I pukvka vksj I ns'ka dsek/; e I svknku inku Hkh ikjLifjd fØ; k gA buds vrxr ?k/vukvka ij c; ku] fopkj] I keftd enns 0; fDr] I eng vksj bu I cl svf/kd mRi knka ds I keftd vksj vkfFkZd ykHk fufgr gA fo'kSk rks ij I ekt ds i Hkookfn; ka I s I a'ak gA ; s; ku ; k fopkj vUro fDrd ; k ehfM; k p'syks ds }kjk] 0; fDr; ka I engka }kjk vki I ea cnystkrsgA i jUrqbu I cds vk/kkj ea ns[ka rks I ekt dsfy, ughagS oju-vUro fDrd ifØ; k }kjk ij h rjg 0; fDrxr : i ea gA I þkj ds I Hkh ekMyka dk vk/kkj ekuo rRo gS bl dkj.k I þkj ds vU; : i ka ea vkUrfd I þkkj] Øe ea I cl svksx gA

I þkj ds ftrus Hkh ekMy gA mu I Hkh ea T; knk /; ku I ns'k dh jpuj I ns'k Lor% p'sy vksj i Hkko] ea vka fe'ku xtg; rk vksj I puk I ns'k fuekZk ds pj .kka ea vUro fDrd ifØ; k ea /; ku ns'ea dgha u dgha p'd gPZ gA tul þkj ekuo I þkj dk , d : i gA tgl; ekuo I þkj gsrk gA ogk; I keftd vksj oS fDrd I xBu ds foHklu Lrj gA Msul eDoSy ds vuq kj tul þkj * fi jkfeM : i ea ns[ka rks 'kh'kz ij gS vksj vkUrfd I þkj bl fi jkfeM ds vk/kkj i jA*

dN ?kVuk, a



d bZ?kVuk, i

l pkj fi jkfeM ea vklſrfd vk/kkj

l kekftd l jpk dks/keZ l svk /keZ dks l kekftd l jpk l sl e; l e; ij
 gj thr dk QS yk djuk i Mrk gS yſdu i R; d ckj l pkj dh egrrk gh ifjyf{kr
 gſZ Fkh tks i {k ftrus l nj <x l sl pkj dj ik; k ml dk iyMk mruk gh Hkkjh jgsk A
 l kekftd ifjorſu dh l Qyrk ; k vl Qyrk bl ckr ij fuHkj djrh gSfd mudk
 l pkj fdruk l n< gS l kekftd l jpk dk LFkk; h jguk Hkh bl ckr ij fuHkj djrk gS
 fd ml ea l pk dks vknku inku fdruk l pk# <x l sgkrk gSA

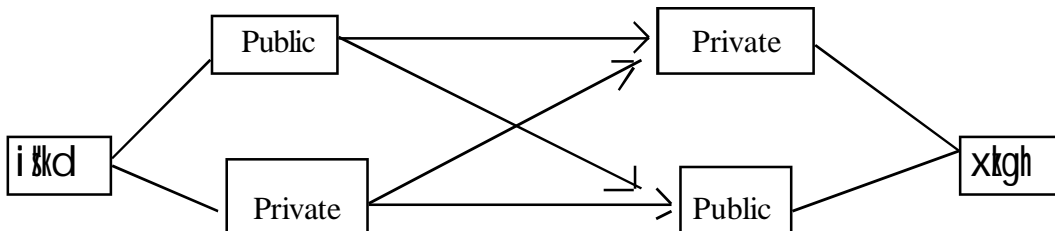
I þkj ek/; eka dk i Hkko u døy fodfl r I ekt ij i Mrk gsvfirql kekftd nf"V I s fi NMs gq {k=ka ear Fkk I epk; ka ij Hkh i Mrk gSA

I ekt eal þkj i fØ;k (Communication process in society):-

eDoy dk fp= ; g bñxr djrk gSfd I þkj I kekftd vk/kkj ij gS ijUrq ogha nñ jh vñj ; g Hkh bñxr djrk gSfd I kekftd I æBu eal þkj dsekeys ; k fLFkr; k; cgr de gA tcfv vñrj & I emj vñro\$ fDr d I þkj dh ?kVuk, ; ; k ekeys vf/kd gA ; g rks , d I edkyhu fo'o ead Bkj I R; dh vfHkO; fDr gA ; | fi I þkj }kj k ekl ehfM; k ds ikl rduhdh : i I sbruh {kerk gSfd og I ekt eagj , d ds ikl igpp I drk gA y\$du I ekt ea Hkh fofHkUurk, ; gS I epk; nj I epk; vñj bl ds Hkhrj Hkh bruh Hk; ðj fol æfr; k; vl ekurk, ; fo"kerk, ; gSfd okLro eafTl I fØ; rk I sbl sigppkuk pkfg, ugha igpp ikrk gA fo'k\$ k rñj ij Hkkjr vñj nf{k.k , f'k; k ea tgk; vkfFkd xjhch vñj ehfM; k fu/kZu I ekt gA

I þkj iðkg ds I æk eapkl djrs I e; eDoy us i \$kd vñj xtgh dse/; þkj fn'kkvka dh igpku dh gA

I þkj ds fl) kUr ; k fd foYcj Jke vñj vñ; fo}kuka usft I s I þkj foKku dgk gA I vñj IV I sT; knk I æf/kr gS fo'k\$ k rñj ij fuekz k dk; ðkgh i rhdka dk i ðkj rFkk I ærd 0; oLFkk] tul þkj ds fl) kUr ij ppkl djrs I e; ehfM; k fu/kZu vñj ehfM; k /kfud nk\$ka dse/; dh fol æfr ij ppkl ugha dh xbZ gA



I þkj iðkg

I tu i \$kd	futh xtgh	ehfM; ks VDI] rFkk M\$/kcd I s I æ) dcy Vhoh] M\$/kcd dsfy, I kQVo\$ j 0; oLFkk
II tu i \$kd	tu xtgh	tul þkj i fØ; k
III futh i \$kd	futh xtgh	vñro\$ fDr; d] vñrj i fjokj] vñr% I æBu] xg ehfM; k] us/od] b&esy
IV futh i \$kd	tu xtgh	foKki u] tul Ei d] , Moks d\$ h] fofHkUu I emka 0; Dr] 0; fDrxr vfHkO; fDr]

3-3 I puk dh vko' ; drk (Information Needs):-

I kekftd o vkfFkd fodkl dsfy, I puk , d vijgk; ZI k/ku gA I e; ij I gh
p ; FkkFkZ I puk dh enn I sufr fu/kkj d vf/kd I svf/kd mi yC/k L=kr ka dk mi ; kx
djusea I {ke gkrs gA rFkk dk; Z dh i ujkoFrR dks jkdusea Hkh I gk; rk feyrh gA I eLr
'kksk o fodkl dk; Z Hkh doy I pukvka ij fuHkj gkrs gA I puk ds vHko eafdl h Hkh {ks=
eamlufr I Hko ugh gA

mi HkkDrkvka dh I puk vko' ; drkvka dks 3 Hkkxka eacka/ I drsgA
& djV , ikp
& ifrfnu , ikp
& I iwZ , ikp
& dfpax&vi , ikp+

& djV , ikp % orëku@djV , ikp ds }kjk ; vtj vius {ks= I s ; k fo"k; I sl æf/kr
uohure fodkl o tkudkj; ka I sviusvki dks v | ru j [krk gA

& ifrfnu , ikp % bl fd vrxr ; vtj vius 'kksk dk; Z gsrq ik; % vko' ; d
tkudkj; ka dks ikr djrk gA

& I iwZ , ikp % bl ds vrxr ; vtj yxHkx I iwZ tkudkj] tks ml I sl æf/kr gka A

& dfpax vi , ikp % bl ds }kjk vius fo"k; I sl æf/kr foLrR o iwZ tkudkj]h
uohure fodkl I sl æf/kr tkudkj]h rjar ikr djrk gA

& I puk dh vko' ; drk fofHku 0; fDr; ka dsfgl kc I sfofHku fofHku izdkj dh
gk I drh gA

& fdl h Hkh izdkj dk fu.kz yus gsrq I puk dh vko' ; drk gksh gA

& I fu; kstr fodkl dsfy, I puk dh vko' ; drk gksh gSA

& I puk vfu'p; dh fLFkr dks I ekr dj I gh fu.kz rd igpusea enn xkj
gksh gA

& ykdrk=d I ekt dh dqky dk; Z z kkyh gsrq I puk , davko' ; d o vfuok; Z
L=kr gA

& I puk vkfFkd fodkl o i Hkkoh 'kkl u dsfy, , d fu.kz d vkst:kj gA

& I puk ds }kjk uohu I kekftd] jktuSrd vksj vkfFkd fopjka vkfn I si fjfpr
gqk tk I drk gSA

3-3-1 I þuk okrój.k (Information Environemnt)%&

I þuk dh xfr'khy izdfr dsdkj.k ifr{k.k u, fopkj izdV gkrsggrsgsA I þuk, a fofo/k Lo#i ka eami yC/k gkrh gsA vaxst h eadgkor gs& "One who knows more ' he earns more " I á&k.k ; k I þkj dk nkf; Ro døy [kcj cukusokys I ekpkj I ðknnkrkvka rFkk I á kndka rd gh I hfer jgrk gsA foLr r v/; ; u ds vk/kkj ij I þuk o&Kkfudka ds fopkj foe'kz I smRi Uu fooknka ds vk/kkj ij I þuk dks bl izdkj ifjHkkf"kr fd; k tk I drk gs] I þuk og fcdus; k&; tkudkj h gsft I dsfy, 0; fDr I nð ykykf; r jgrk gsA I þuk I þuk mRi knu bdkbz ka dsfy, dPpk eky gsA I þuk thou gsA bl h rjg I ekt ea I þuk dh mi ; k&xrk ds vk/kkj ij I þuk I ekt dh dYi uk dh xbz gsA

I þuk ds Hkk&rd Lo#i &

tc I þuk fdl h , d h fLFkr ; k #i ea i Lr r gkrh gsft I eam I si R; {k n&kk tk I ds]egl w fd; k tk I ds ifrfØ; k dh tk I ds rFkk I þuk Lo; adN iz uk adsgy fudky ysrc ; g Hkk&rd #i ea gkrh gsA I þuk dk Hkk&rd #i I þkj dka dsfy, vR; r mi ; k&xh gkrk gsA

I þuk dk vkrfjd Lo#i &

; g 0; ol kf; d nF"V I segRoi w& I þuk dk Lo#i gsA ; g og Lo#i gsft I sigys I sughal e>k tk I drk u gh ml dsckj sea dN vnt yxk; k tk I drk g& Hkk&rd Lo#i okyh I þuk dk mRrj gh vkrfjd I þuk dk Lo#i g&

3-3-2 I þuk iHrdrkz (Information Reeciipients)%&

Jkrk vFkok v/; r k tks dkbz Hkh I n&k vFkok I þuk dks i klr djrk gSml s I þuk i klrdrkz dgrsgsA I n&k , oa I þuk tks I á&kd }kj k I ftr fd; k tkrk gSml s I k/kuka , oa fof/k; ka ds ek/; e I s I þkfjr fd; k tkrk gsA I þuk ds I &g.k]i d kj]rFkk LFkkukarj.k dh J&kyk ea I þuk ds mi ; k&xdrkz v& i klrdrkz v&re dMh gkrsgsA I þuk dk I tu fdl h 0; fDr ds eflr"d ea gkrk gsog n& js 0; fDr ds eflr"d ea LFkkukarfjr , oa vkRel kr dkjh gkrk gsA fofHku oxka ds mi ; k&xdrkz/ka dks vi uh vko' ; drk ds vuq kj I k&u; , oa fof'k"V izdkj dh I þukvka dh vko' ; drk gkrh gsA Nk=ka dsfy, vi us i k B; Øe I s I &f/kr I þuk, a f' k{k&ka dks vi us f' k{k.k dk; Z I s I &f/kr I þuk, a 'kk&drkz/ka , oa o&Kkfudka dks uohure I þuk, a , oa 0; ol kf; vka dks vi us 0; ol k; I s I &f/kr I þukvka dh vko' ; drk gkrh gsA

3-3-3 I þkj dsfofHlu QKWZ ,oa pðYI (Channels of Communication)

I þkj ds e[; r% rhu QkeZ gkr s gð

- 1- vkjy
- 2- MKD; wð/jh
- 3- vkMM; k&fotqy

vkjy & bl ds vrxr , d 0; fDr nð js 0; fDr l sl ðkn djrk gS; g vkeus l keus ; k
VsyhQku ij gks l drk gSA ; k , d 0; fDr dbZ 0; fDr; ka ds l eng l sl ðkn djrk
gS tS s dkbZ ehfVax] Hkk" k.k] 0; k[; ku bR; kfn AdbZ 0; fDr; ka }kjk dbZ 0; fDr; ka l s
l þkj tS sfd l eng ppkZA

MKD; wð/jh & bl ds vrxr fullu izdkj l sl þkj gkrk gS
0; fDrxr & tS si=kpkj
izdkf'kr@efnr & tjuYI]iþrda]iEiyvþ vkfn
vizdkf'kr & fjikZ] 'kkskdk; Z] ið =] ifji = vkfn

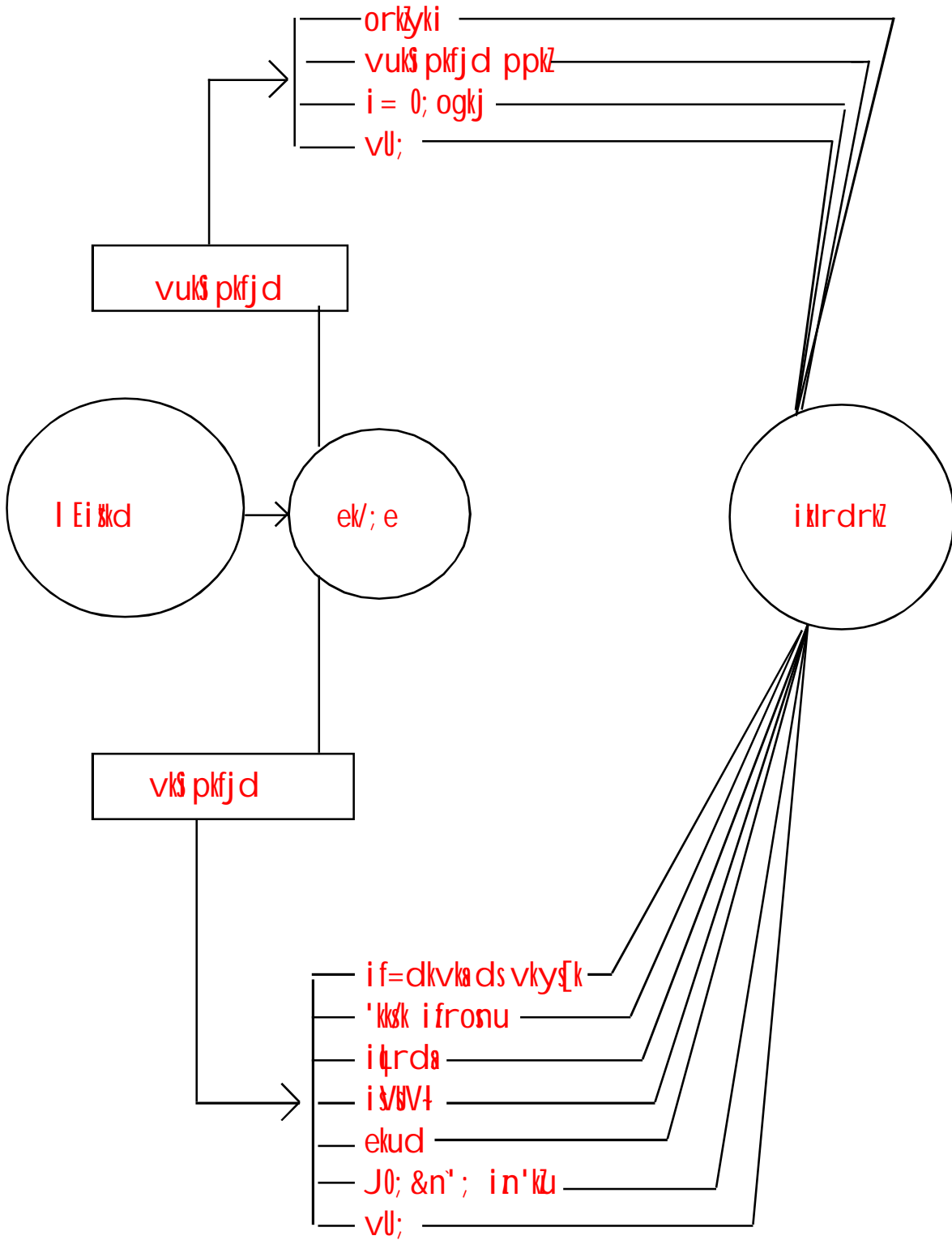
vkMM; k&fotqy & bl ds vrxr fuEu izdkj l sl þkj gkrk gSA

I þkj ea e[; r% nks rjg ds pðYI iz þr gkr s gðA

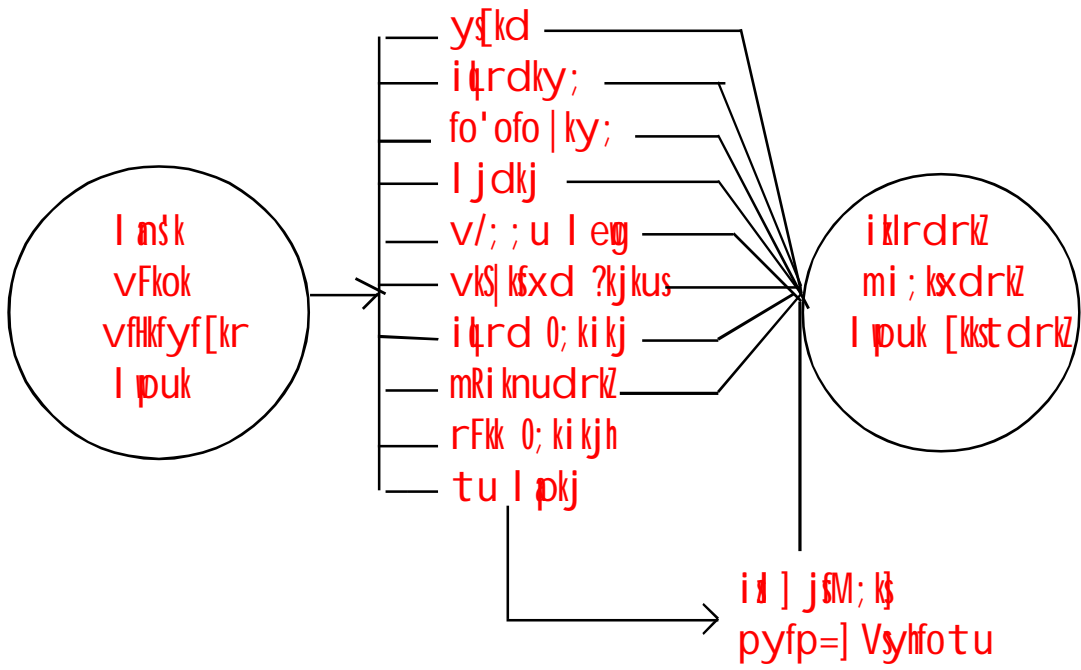
- 1- vukS pkfjd
- 2- vks pkfjd

vukS pkfjd pðYI & ; g pðYI ekS[kd o fyf[kr nkska #i ka ea gks l drsgð bu pðYI
ds }kjk døy Nks/s l eng rd gh l þukvka dks ið kfjr fd; k tk l drk gSA
vks pkfjd & vR; f/kd 0; fDr; ka ; k cgr cMa l engka rd l þuk ds l þkj ds fy,
vks pkfjd pðYI ij fullkj gksuk i Mrk gSA ij l rqiðk'ku ea foyEc gksuk vks pkfjd
pðYI dk , d nksk gSft l l sdbZckj l þuk, @tkudkjh ykska ds ikl i gpus l siðZ
gh vkÅV vkMM Mv/ gks tkrh gðA vks pkfjd pðYI ds vrxr fullu l ðFkk, a l þkj
ea l gk; d gkrh gðA

I þkj dsfofHlu pðYI dks fp= 1-3 ds }kjk n'kk; k x; k gSA o l þuk l þkj ea l gk; d
fofHlu l ðFkkvka dks fp= 1-4 ds }kjk n'kk; k x; k gSA



I puk I Ei 8k.k ds ek/; e
fp= & 1-3



I p̄uk I Ei šk.k ea l gk; d rRo
 fp=& 1-4

3-4 I kjlæk (Let us sum up)

vkt dsbl oKkfud ; q ea l p u k , d egRo i w k z l a k / k u , o a ' k f D r e k u h t k r h g S A
r F k k m l s f d l h j k " V a d s v k f F k z d] l k e l f t d] v k s j k s x d] ' k s k f . k d , o a j k t u s r d f o H k k x d k
e m y v k / k k j e k u k t k r k g S A o r z e k u l e ; e a l p u k v R ; r f o ' k k y e k = k e a m R i U u d h t k
j g h g S A b l f y , b l d k l e f i p r m i ; k s x d j u k H k h v k o ' ; d g S A l p u k d k m i ; k s x r H k h g k s
l d r k g S t c m l d s l t u d s c k n v l ; m i ; k s x d r k z / k a r d m l d k s i g p k ; k t k , A l p u k l s
l a f / k r l H k h d k ; z i z k k f y ; k a d h l Q y r k l p u k d s l p k j i j g h v k / k k f j r g k s h g S A

l p u k Ø k a r d s b l ; q e a l p k j i j a j k x r e k / ; e k a i j v k f J r u j g d j v k / k k f u d
t h o u d h v i f j g k ; z o L r q c u x ; k g s v k s j 0 ; k i d v F k z e a b l s l p k j i k s j k s x d h d g k t k r k g S

3-5 Lo tlp vH;kl (Self check exercise)

- 1 l p k j D ; k g s o b l d s f o f f k l u ? k v d @ r R o d k s l s g a \
- 2 l e k t e a l p k j d k D ; k ; k s n k u g s \
- 3 l p u k d h v k o ; ' d r k D ; k a g s \
- 4 l p k j d s f o f f k l u p s y l d k s & d k s l s g a \

bdkb74 mi ; ksdrkz/ksgrq l puk (Information to Users)

- 4-0 fo"ki ; idsk (Introduction)
- 4-1 mnns ; (Objectives)
- 4-2 l puk% vo/kkj .kk , oa i fjHkk"kk (Information: Concept and Definition)
- 4-3 mi ; ksdrkz/ksgrq l puk (Information to Users)
- 4-4 l puk rFkk ml ds mi ; ksdrkz (Information and its Users)
- 4-5 l puk [kkt ds fofo/k idkj (Kinds of Information Sought)
- 4-6 l puk ekxads l nHkz ea l puk l sk, @L=kr (Kind of Information Services Used)
- 4-7 l puk dk ev ; (Value of Information)
- 4-8 l puk rd igp ea vojkk (Barriers to Access to Information)
- 4-9 l pkj ek/ ; e (Media of Communication)
- 4-10 L=kr , oa i ki d ea l ck LFkki uk (Linking of Source and Recipients)
- 4-11 l puk Qyko (Information Diffusion)
- 4-12 l puk dsLo: i Forms of Information
- 4-13 l puk fl) kr (Basic of Information Theory)
 - 4-13-1 dqky dkm (Efficient Encoding)
 - 4-13-2 l puk l kexh dk eki u (Measuring Information Content)
 - 4-13-3 P ykk P l # ds i hNsdk vl rKku (The Intuition behind the Formula)
- 4-14 l kjkak (Let us sum up)
- 4-15 Lo tkp vH ; kl (Self check Exercise)

4-0 fo"k; iðsk (Introduction)%&

I þuk, a Kku dk L=kr , oa vk/kkj gþ os gh Kku dh i kflr djkrh gþ eflr"d I þukvka dsfofHkUu vkoj .kka dks gVkdj mudsvkj i kj n[krk gsvkþ mueafufgr rF; [kkst yrk gþ I þki ea I þuk, aeflr"d dks I fØ; j [krh gþ osgekjs Kku dk egRo i wkZek/; e gþ I þukvka ds vk/kkj ij ge viusfopkj , oa er fu/kkZjr djrs gþ I þukvka ds vk/kkj ij gh ge viuh : fp; k; vkþ v: fp; k; cukrsjgrsgarFkk osgh gekjh eukxðFk; ka dk Hkh fuekZk djrh gþ ; gh dkj .k gSfd cgþ r vFkok vud idkj dh I þukvka ds/kuh 0; fDr dksge Kkuoku vFkok Kkuh 0; fDr dgrsgþ I þuk I kekk; Kku ea ifjofrþ gkrh gsvkþ I kekk; Kku fujh{k.k & ijh{k.k dsmi jkUv I æð/kr 0; fDr ds0; fDrRo , oa thou&i) fr dk vak cu tkrk gþ I þukvka dh I þ; k vFkok ek=k ftruh vf/kd gkrh gþ mruh gh vf/kd I Qyrki ðð 0; fDr viuh jk; cukrk gsvkþ mrusgh vf/kd vkRefo'okl i ðð fu.kz; djus ea I efkZ gkrk gþ ftruh de I þuk, a gkrh gþ I EcflU/kr 0; fDr dh I e> mruh gh de gkrh gþ; k I e>h tkrh gþ i wkZ I þukvka ds vHkko ea 0; fDr; ka ea ik; %ghu Hkko fodfl r gkusyxrk gþ I þuk gh og uhð gSft I ij Kku dk Hkou fufeþ fd; k tkrk gþ ge oLr r % I þukvka ds I gkjs thou 0; rhr djrs gþ ukjcVZohuj uke dsfo }ku~ds'kCnka eþ *{kerki ðð thou 0; rhr djus dk vFkZ gSi; kZr I þukvka ds I kFk thfor jguka*

bl bdkbZ ea I þuk dks I þkj Jðkyk dh , d dMh ds: i ea n[krsgg v/; ; u fd; k x; k gStksmRi knu L=krkþ I þkj .k] ek/; e vkfn dks, dhdr djrh gþ ; gk; , d sfo"k; ka dk Hkh v/; ; u fd; k x; k gSftuea I þuk , d eny dlnz gkrk gþ bl idkj I þuk , oa ml ds I Hkh i {kka dk v/; ; u djrs gþ budsvar I EcflU/ka vkþ ryukRed egRo] idfr] idkj vkþ fo"k; {ks= dh ppkZ djæA

4-1 mnæþ; (Objectives) %&

bl bdkbZ dk mnæþ; I þuk dh vo/kkj .kk] egRo] idkj] {ks=ka I sifjpr djuk gþ bl ds v/; ; u dsmi jkUv vki fuEufyf[kr fclnþ/ka ij I efpr tkudkj h i klr dj I dæx %&

- I þuk dh vko' ; drk vkþ mi ; kSxrk I sifjpr gks I dæþ
- I þuk idkg ea vojkskdka vkþ mudsfujkdj .k dh tkudkj h]
- I þuk I þukvka dh i fØ; k , oa {ks= dks I e> I dæþ
- I ekt ea I þuk dk I Ei þk .k fofHkUu Lo: i ka ea dS sfd; k tkrk gSbl I sHkh voxr djuk]
- I þuk dsmi ; ksx , oa mRi knu ea I yXu mi ; ksx drkZ/ka dh Hkfredka

4-2 Information: Concept and Definition:-

Information is the knowledge or facts that are communicated or received. It is the data that is processed and organized into a meaningful form. Information is the knowledge or facts that are communicated or received. It is the data that is processed and organized into a meaningful form.

Information is the knowledge or facts that are communicated or received. It is the data that is processed and organized into a meaningful form.

Information is the knowledge or facts that are communicated or received. It is the data that is processed and organized into a meaningful form.
& Webster's Dictionary of the English Language

Information is the knowledge or facts that are communicated or received. It is the data that is processed and organized into a meaningful form.

& Concise Oxford English Dictionary

I þuk 0; ki d : i ea l Ei þk.k ; kx; rF; ka dk l eng gð
& Harrod's Librarian's Glossary and Reference Book

I þuk ml sdgrsgðft l eavkdj dks ifjofrð djusdh {kerk gkrh gð
& ,u- cfYdu

I þuk , d vkdj ; k vfhkdYi gkrh gð tks fdl h vko'; d mnns; grq rF; ka dks
i þ0; ðfLFkr djrh gð
& Mh- cSy

bl izkj I þuk dh ifjHkk"kkvkaea, d: irk ugh gð bl svud ifjið; ka eavud izkj l s
ifjHkkf"kr fd; k x; k gsfduqbruk Li "V gsf d I þuk , oal Ei þk.k , d nll js l s?kfu"V l æzk j [krs
gð l Ei þk.k , oal þkj l keft d fofue; dh if0; k, j gð vks I þuk fofue; dh oLrqgkrh gð
l Ei þk.k i k; % , d fopkj/kkj k] fo" k; & oLrqvFkok l ðkn l s i kjEHk gkrk gð ft l s i þkd nll jka l s
dguk pkgrk gð bl dk vFkzfdl h ek/; e l s i þkd vks i klrdrkz dse/; I þuk dk LFkkukUvj .k
Hkh gð bl dsfy, fopkjka vFkok l ðkn dksfyfic) djus l e>us; kx; cukusvFkok fplgkadr
djusdh vko'; drk gkrh gð bl izkj vFkr I þuk Øe'k%okD; jþukRed I þuk dk : i /
kkj .k dj yrh gð

4-3 mi ; kxdrkz/ksgrqI þuk (Information to Users):-

foKku vks i ks] kx dh ds {ks= eafujUvj gksjgh izfr usekuo thou ds i R; d i {k]
{ks= vks f0; kdyki dks i Hkkfor fd; k gð ge nll js' kCnkaea; g Hkh dg l drsgðfd vkt ekuo
ij foKku dk i Hkko LFkfi r gð orðku eafokku ds, d iæð'k ?kVd I þuk dk l Ei wZfo'o ea
egRo c<rk tk jgk gð D; kðd l ekt dh i R; d xrfof/k fo' kskr% l keft d vks vkfFkd izfr
oKkfud vks rduhdh I þuk ds LFkkukUvj .k ij gh fuHkj djrh gð i R; d 0; fDr dksfdl h u
fdl h mnns; l s l þuk dh vko'; drk gkrh gð vks ml dh i firZgrqog fofHku izkj ds l kfgR; ka
dk v/; ; u djrk gð fofHku Lrjh; l Eesyuka vks fopkj xks"B; ka ea l fEefyr gkrk gð vks vi uh
l eL; k ds l ek/kku grqI þuk i klr djrk gð oKkfud vks rduhf'k; u vi usfo" k; l s l æð/kr
I þukvka dk fo'kyþk.k djds vi uh vko'; drkuð kj mudk mi ; kx djrs gð rFkk i zU/kd]
izkl d] jktuhfrK vkfn dks Hkh vi us&vi us f0; kdyki ka ds vlrðr fofHku : i ka ea fujUvj
I þuk dh vko'; drk gkrh gð

fofHkUu oxkādsmi ; kxdrkZ/kadksvi uh vko' ; drk dsvuq kj I keld ; , oafof'k"V izdkj dh I puvkadh vko' ; drk bl izdkj gkrh g&

- Nk=ka dsfy, vi us i kB; Øe I s l æf/kr I puvkadh vko' ; drk gkrh g&
- f'k{kdkadksvi usf'k{k.k dk; Z I s l æf/kr I puvkadh vko' ; drk gkrh g&
- 'kkskdrkZ/ka vksj oSkfudka dks fujUrj I puk dh vko' ; drk gkrh g& vksj buds }kjk fofok Lo: i ka ea I puvkadh I okZ/kd mi ; kx fd; k tkrk g&
- 0; ol kf; ; ka dksvi us 0; ol k; I s l æf/kr I puk dh vko' ; drk gkrh g&
- 'kkl dh; vf/kdkfj; karFkk 0; oLFkki dka dks fofok izdkj ds iz kkl fud fu.kz yusdsfy, I puk dh vko' ; drk gkrh g&

bl izdkj I puk , d egROI wZl d k/ku gSftI svc vkfFkd mRiknu ekuk tkusyxx g& oSkfudkadk er gSfd ge /kh&/khjsml ; x eai dsk dj jgsgftI eal puk fofue; ds }kjk m | kx&0; ki kj I Ehko gks tk, xkA

4-4 I puk rFk ml dsmi ; kxdrkZ (Information and its Users):-

I puk dh xfr'khy izdr ds dkj.k i fr{k.k u; s fopkj izdV gkr sjgrs g& bu fopkj ka dks Hkfo"; eami ; kx dsfy, fofHkUu izdkj e& fofok Lo: i ka ea vfhkyf [kr dj fy; k tkrk g& I puvkads fofok Lo: i ka vksj L=kr ka l si kB ka dh vufHkKrk ds dkj.k I puk dh mi yC/krk ds cotm ikBd ml rd ugh igp i kr& fofHkUu tu I engka dks fofok I anHka ea fofHkUu izdkj dh I puvkadh vko' ; drk gkrh g& I puk, j fofok Lo: i ka eami yC/k gkrh g& mi ; kDrkvkadh I puk vko' ; drkvkadh tfVyrk vksj mi yC/k I puvkadh xqkkRed of) ds QyLo: i I puk dk mi ; kDrkdj.k vR; Ur vko' ; d gks x; k g& y[kdka }kjk vfhkyf [kr I puk, j i f=dkvk& 'kksk i=k& rdudh i fronuk& I Eesy i=k& 'kksk izU/kk& i s/BV] ekud vkfn : i ka eami yC/k gkrh g& I puk dh vk& kd i kfr grqmi ; kDrk dks bu L=kr ka dk mi ; kx djuk gkrk g& I puk foLQk/ ds dkj.k mi ; kDrk ds fy, bu I puk L=kr ka ds , d Hkx dk mi ; kx Hk vR; Ur dfBu g& I puvkads fc [kjs Lo: i ds dkj.k Hk mi ; kDrk dfBukbZ dk vutko djrs g& vr% I puk dh I yHk mi yC/k grq I puk dk mi ; kDrkdj.k vko' ; d g& I puk dsmi ; kDrkdj.k dk rkRi ; Zeny I puk vFkok I puk L=kr dks Vsyfj& vFkZr dk v&NkV] 0; oLFkki u vksj izU/ku }kjk mi ; kDrk dh vko' ; drk dsvuq i i Zrq djuk gSrkfd I puk dk vfhkKku] LFkku fu/kk&.k] mi yC/k vksj mi ; kx I Ehko vksj I q k/; gks I d&

miH; kDrk l epk; dh vko'; drkvkadsvuq i l puk L=krkadk l adyu vks i q0; bLFkki u fd; k tkuk plfg; A l puk foLOks/ dsvk/kfud ; q ea l puk dk mi ; kDrkdj.k vR; Ur vko'; d gA bl izdkj l puk vks ml ds mi ; kDrk l puk mRiknu l si qznRiknu rd ds l Ei wkz p0 ds i Fkd&i Fkd fclnqgA mi ; kDrkvka }kjk l puk dk mi ; ks dj l puk ds izdkj] Lo: i rFkk {ks= ea of) dh tkrh gSrFkk uohu l puk dk fuekzk fd; k tkrk gA

4-5 l puk [kkt dsfofo/k izdkj (Kinds of Information Sought) %

l puk ds mi ; ksdrkz/ka dh foHkUu Jf.k; ka ea l puk vks fodkl dk; drkz rduhf'k; u] fu; kst d] izlU/kd] fu.kkz, d] f'k{k(kd vks foHkUu l keftd Lrjka vks ifr"Bk ds vuq kj tul k/ kkj.k vkfn izd[k gA bu v/; ; uka l s i rk pyr k gSfd foHkUu 0; fDr; ka dh l puk vko'; drk fhkUu&fhkUu gkrh gSrFkk , d gh 0; fDr dh l puk vko'; drk, ; Hkh l e; ds l kFk&l kFk i fjofr' gkrh jgrh gA izlU/kd] fu.kkz, dka vks tul engka ds vfrfjDr vU; mi ; ksdrkz/ka dh l puk vko'; drkvkadk , d l keU; i freku gkrk gA fdUrqfQj Hkh i R; d 0; fDr dh l puk vko'; drk, ; vkykpukRed gkrh gA v/; ; u l s Kkr gkrk gSfd l keU; turk ds vf'kf{kr vks fu/kz oxz dh l pukRed ekx l okz/kd vkykpukRed gkrh gA mi ; ksdrkz/ka }kjk vyx l e; ij viuh vko'; drkvkadsvuq kj fuEu Jf.k; ka ds vUrxr l puk L=krkadk ekx@[kkt dh tkrh gS%

- uohu l puk [kkt@ekx
- foLr' l puk [kkt@ekx
- fuR; i fr l puk [kkt@ekx
- vkd"kd l puk [kkt@ekx

4-5-1 uohu l puk [kkt@ekx % uohu fodkl ka l s i fjfr gkus ds fy; s rFkk fo'k"V xfrfof/k {ks= rFkk vU; l a/kr {ks=ka dh v|ru tkudkj ds fy; s mi ; ksdrkz/ka }kjk uohu l pukvkadk vko'; drk vuHko dh tkrh gA l puk L=krkadk l kef; d vks Rofjr mi yC/krk bl l puk l ok dh izd[k fo'kskrk, j gA vR; Ur rhoxfr l sfodfl r gkus okys fo"k; {ks=ka ea; g l ok vR; Ur vko'; d gA {ks= dh uohu xfrfof/k; kadsKku ds QyLo: i xfrfof/k mRi knu vks i f0; k dsuohu {ks= dsp; u ea l gk; rk i klr gkrh gA vU; 0; fDr; ka }kjk iz, q r i fo f/k; kavks rduhdka ds iz ks }kjk dk; Z dh f}jkoFRr dks jkadk tk l drk gSrFkk uohu l keftd] jktuhfrd vks vkfFkd fopkjka vkfn l s i fjfr gpyk tk l drk gA

4-5-2 foLrR I pUK [kSt@eLx % bl izdkj dh vko'; drk rc mRiUu gkrh gS tc mi; kxdrkZ }kjk , d gh {ks= dh foLrR I pUKvka dh ekax dh tkrh gA I eLr ikl fxd I pUK L=krka dh mi yC/krk I sJe dh f}jkoFRr dksfu; f=r dj dk; Zdsuohu {ks=ka dk p; u fd; k tk I drk gA I pUK L=krka dh foLrR [kSt ds I kFk&I kFk foLrR I kfgFR; d [kSt }kjk fd I h fof'k"V {ks= dh fof'k"V xfrfof/k I sl eLr/kr I eLr mi yC/k I pUKvka dk I Ei wZ fp=.k Li "V gks tkrk gA

4-5-3 fuR; i fr I pUK [kSt@eLx % fnu i frfnu dh xfrfof/k; ka ea Hkh mi; kxdrkZ/ka }kjk fofHkUu izdkj dh I pUKvka dh vko'; drk vutko dh tkrh gA bl izdkj dh I pUK vko'; drk vka dh i frZ gsrq fof'k"V I pUK vak dh vko'; drk gkrh gSrFkk Rofjr mRrj inku djus gsrq fof'k"V izdkj ds I nHkZ L=krka dh I gk; rk yh tkrh gA

4-5-4 vkd"kd I pUK [kSt@eLx % mi; kxdrkZ/ka }kjk fd I h fof'k"V {ks= dh fd I h xfrfof/k I sl eLr/kr fodkl ka dh I Ei wZ tkudkj Hkh I f{klr Lo: i eaekxh tkrh gA bl izdkj dh I pUK vko'; drk dh i eC[k fo'kSkrrk ; g gSfd mi; kxdrkZ fd I h {ks= ea cgr vf/kd : fp ugh j [krsrFkk muds }kjk ; g ekax dh tkrh gSfd I pUK I jy vKj I f{klr : i eabl izdkj mi yC/k djkbz tk, fd I Ei wZ fo"K; dks I jyrki wZ I e>k tk I dA

4-6 I pUK ekLa ds I nHkZ ea I pUK I ok, @L=kr (Kind of Information Services Used) %

I pUK dh izdfr ds vk/kkj ij I pUK L=krka dks i kFkfed] f}rh; d vKj rrrh; d Jf.k; ka ea fofHkFtr fd; k x; k gA mi; kxdrkZ/ka dh fof/k vko'; drk vka ds vuq i I pUK dks dkV&NkV dj ml dk mi; kDrkdj.k fd; k tkrk gA uohu I pUK vko'; drk vka vKj foLrR I pUK vko'; drk vka dh I Urq"V gsrq mfr I pUK L=krka dk i wZ upeku ugh yxk; k tk I drkA tcfu fuR; i fr I pUK vko'; drk vka vKj vkd"kd I pUK vko'; drk vka dh i frZ gsrq I pUK L=krka }kjk fuf'pr I pUK inku dh tkrh gA

4-6-1 uohu I pUK [kSt@eLx I sl eLr/kr I ok L=kr % uohu I pUK vko'; drk vka dh i frZ gsrq; g vko'; d gSfd mi; kxdrkZ/ka }kjk ekax fd; s tkus ij ; Fkk 'kh?kz gh uohu I pUK, a mi yC/k djokbz tk; A bl izdkj dh I pUK vko'; drk vka dh i frZ gsrq I pUK L=krka@I okvka dk fodkl vKj vfHk dYi fofHkUu izdkj I sfd; k tkrk gS tS s*I pUK vfHkKrk I ok* ds vUrXr VkbZ/y , ukmlU eSV cySVu] , I -Mh-vkbZ cySVu vkfn dk fuekZKA bl

izkj dsL=krka@I okvka ds fuekZk ea iyS[k dh vk[; k dks ied[krk nh tkrh gA cgr I h I puk I okvka }kjk iyS[kka dh fo"k; oLrq i"Bka ds vk/kkj ij L=kr fufeZ fd; s tkrsga tS s djUV dUVBVt vkfnA bu L=krka dk fuekZk bl izkj fd; k tkrk gSfd mi; ksdrkZ mudk mi; kx I jyrki dZ vkS 'kh?krki dZ dj I dA bl izkj dsL=kr vktu ykbZu ij Hkh miyC/k gA

bu I okvka ea emy : i I s vk[; kvka dks fuof'kr fd; k tkrk gA vk[; kvka dk 0; oLFkki u foLr fo"k; I emka ea vFkok oxhZr Øe eafd; k tk I drk gA I LFku ds foHkkx ds uke ds vUrxZ Hkh vk[; kvka dks 0; ofLFkr fd; k tk I drk gA foLr fo"k; I emka ea vk[; kvka ds 0; oLFkki u I foLr fo"k; 'kh"kdka dk fu/kkj.k Hkh I jyrki dZ fd; k tk I drk gA vf/kdkr% ; sfo"k; 'kh"kd mi; ksdrkZ/vka dh foLr fo"k; : fp ds vuq i gh gkrsgA , d I svf/kd fo"k; ka I s I ed/kr vk[; kvka ds fy, ifrfunZ k inku fd; s tk I drsgA vf/kdkr vUrkZVh; I fip; ka ea bl izkj dk 0; oLFkki u gkrk gA

oxhZr 0; oLFkki u gsrq oxhZj.k i }fr dk mi; kx fd; k tkrk gA vk[; kvka ds foLr oxhZj.k }kjk vk[; k dh fo"k; oLrq dks iwZ: i I sinf'kr fd; k tkrk gA bl i) fr ds }kjk mi; ksdrkZ fo'k"V 'kh"kdka ij I puk ikr dj I drsg rFk I Qyrki dZ foLr fo"k; {ks=ka dk voykdu Hkh dj I drsgA bl ds }kjk vk[; kvka ds fc[kjko dh I eL; k dk Hkh I ek/kku gks tkrk gA vk[; kvka ds oxhZj.k ea vf/kd I e; yxus ds dkj.k dbZ ckj I e; I hek ea I ok, a inku djuk vR; Ur dfBu gks tkrk gA

VkbZ/y , ukmlI edV dh , d vl; fof/k *dUVBVt ck; tuZy* gSbl i) fr ea yS[kka dks bdkbZu ekudj if=dkvka dh vk[; kvka dks bdkbZ ds : i ea n'kkZ k tkrk gA bl i) fr ea if=dkvka dh vk[; kvka dks foLr fo"k; I emka ea 0; ofLFkr fd; k tkrk gA , d mi; Ør fof/k ; g Hkh gSfd if=dkvka ds fo"k; oLrq i"Bka dh vufyfi rS kj dj vko'; drk ds vuq i 0; ofLFkr dh tkrh gA *dsedy VkbZ/y* bl h izkj dk I puk L=kr gA

p; fur I puk iz kj.k I ok Hkh I puk ds mi; kDrkdj.k dk mRre mnkgj.k gA bl h izkj buI Mktl }kjk Hkh fo"k; &oLrq I kj vkS Qks/kdklh I ok inku dj I puk dk mi; kDrkdj.k fd; k tkrk gA I puk rdudh fodkl ka ds QyLo: i VsyhVDI vkS ofM; ksVDI ds : i ea Hkh uohu I puk L=kr miyC/k gS ftuds }kjk tul k/kkj.k dh nSud thou dh I keku; I puk vko'; drk; I UrqV dh tkrh gA

4-6-2 foLrRr I pUK [kSt@eLx I sl æf/kr I øk L=kr %& foLrRr I pUK vko' drkvka dh ekx djus okys mi ; ksdrkz/ka dh I rrfV grsq ; g vko' ; d gSfd I pUK L=krka }kjk fofHku Hkk"kkvka eafofHku fo"ka dh foLrRr tkudkj inku dh tk; A ikFkfed L=krka eafufgr I pUKvka dks igpku dj mudk fo'ySk.k vks foLrkji dZ vfHkys[ku fd; k tkrk gA I pUK L=krka }kjk vk[; kvka ds vfrfjDr foLrRr vuøef.kdkvka ds : i ea vU; I pUK,; Hkh inku dh tkrh gA xbfkl ph] vuøe.khdj.k vks I kjdj.k if=dk,; bl h izdkj dh I øk, ainku djsrgA dHkh&dHkh mi ; ksdrkz/ka dks mi ; Ør I pUK L=kr ds p; u ea l gk; rk inku djus grsq Hkh I kj mi yC/k djok; s tkrsgA ; sL=kr LFkkuh;] {ks=h;] jk"Vh; ; k vUrkzVh; Lrj ds gks l drsgA bu L=krka eaf"ka; oLrqdsvk/kkj ij ¼tS sdsedy , Cl VDV] BUMDI eSMdl vkfn½ vks I pUK dh izdr dsvk/kkj ij ¼tS s'kksk izU/k] I kj] I Eesy i =] vuøef.kdk vkfn½ fHkuurk gsrh gA fdl h Hkh I LFkku vks ml ds mi ; ksdrkz/ka dh fo"ka; I æakh vko' ; drkvka dsvk/kkj ij LFkkuh; Lrj ij Hkh bu L=krka dk fuelz k fd; k tk I drk gA vUrkzVh; Lrj ij Hkh vuø l øk, avkku ykbZu : i eami yC/k gA

4-6-3 fuR; i fr I pUK [kSt@eLx I sl æf/kr I øk L=kr %& mi ; ksdrkz/ka dh fuR; i fr vko' ; drkvka dh i firZgrsqokLrfod I pUK dh mi yC/k I okz/kd egROI wkZ gA I pUK L=kr vf/ kdkkr-%gSM cp] Mv/k cp] Mv/k cd vkfn Lo: i eagksrgsftudk vfHkdYi Rofjr] ifj'kq vks fof'k"V I pUKvka dh ikfir grsqfd; k tkrk gA fofHku ikFkfed L=krka l sl pUK dk l æg.k] fo'ySk.k vks eV; ka du dj vko' ; d I pUKvka dh Rofjr i qikZr grqmi ; Ør Lo: i ea i Lrqhdj.k fd; k tkrk gA funs'kd k] 'kCndks k] ok"kdh vkfn I UnHkZ L=kr Hkh vko' ; d I pUKvka dks inku djuseal gk; d gA

4-6-4 vkd"kZd I pUK [kSt@eLx I sl æf/kr I øk L=kr %& vkd"kZd I pUK vko' ; drkvka dh I rrfV grsqeksyd I pUK,; inku dh tkrh gA fdl h fof'k"V {ks= I sl æf/kr I Ei wkZ I pUKvka dks l ækIr Lo: i ea i Lrq fd; k tkrk gA fofHku ikFkfed L=krka l sl pUKvka dk l æg.k] fo'ySk.k dj mlgal ki s{k d egRo dsvud kj 0; ofLFkr fd; k tkrk gA bl izdkj ds I pUK L=krka ds fuelz k ea l pUK fo'ySk.k] I esdu vks jhi dStax vkfn fof/k; ka dk mi ; ks fd; k tkrk gA fofHku izdkj ds l eh{kk izdk'ku] ; Fkk fLFkr o.kZu ifronu vkfn ds }kjk vkd"kZd I pUK vko' ; drkvka dks l UrqV fd; k tkrk gA

4-6-5 vU; izdkj dh I puk [kst@ek I sl ef/kr I ok L=kr % mijkDr of.kz [kkt izdkj dsvfrfjDr vU; fof'k"V vks fofok I puk ekpkadh I Urq"V grqvk'o'; drkvkadsvuq i fof'k"V I puk L=krkadk vfhkdYi fd; k tkrk gA fofHku rjhdkavks Lo: i kaevko'; drkuq kj I puk vks MKVk dk mi ; kDrkdj.k fd; k tkrk gA i ekf.kd I eh{kk vks I ay'sk.k inku djusokys L=krkadksvf/kd egRo iwz ekuk tkrk gA

4-7 I puk dk eku (Value of Information) %

I puk dk eku fdl h fu.kz] dk; I ifj; kstuk ea I puk dh mi yC/krk vks I eku dk; I fu.kz] ifj; kstuk ea I puk dh vuy yC/krk dschp dk vUrj gsrk gA I kfk gh I puk dh i kflr dh ykx dksHkh ?kVv; k tkrk gA bl izdkj I puk dsvHko ea i klr ifj.kke vfuf'pr gskkj vU; Fkk dkbZ Hkh I puk eW; oku ugh gsk I drh gA bl h izdkj ; g dgk tk I drk gSfd I puk dsvHko eavfuf'prrk cuh jgrh gA vfuf'prrk eaI nb fofok fodYi mi yC/k gksrgavks vxj fodYi u gkarksfdl h Hkh izdkj dk fu.kz yus dh vko'; drk ugh gsrh gA bl ifjLFkfr ea fdl h tkudkjh ; k I puk dk eW; Hkh 'kU; gh gsrk gA

I puk F; kjh ds vuq kj % *I puk dks vfuf'prrk ?kVkus okys ?kVd ds : i ea ifjHkkr'kr fd; k x; k gA vkdMavks I puk fdl h Hkh dk; Zdh vfuf'prrk dks de djrs gA

I kedu; r% I puk dseku dk fo'ysk.k djusdh vk/kkjHkr I eL; k rdZI k/; vuqku] [kkt rFkk fujUrj fu.kz djusrFkk I fO; puko djus ij mRiUu gsrh gS ek= fdl h ifjLFkfr dk fuf'O; : i eavoyksdu djus ij ughA I puk dk eku I puk dks i HkkoH : i I sgkfl y djus vks iz; kx djusdh i) fr dk fodkl djuseal gk; d gsrk gS ftI I sl I puk dks de ykx ea I efr < x I smi ; kx djuk I Hko gsrk gA

4-7-1 I puk dseku dh fo'kkrk (Characterstic of Value of Information) %

- & vPNh I puk dk; Zdh ykx dks de djus ea I gk; d gsrh gA
- & i; kZr I puk I e; dks cprh gA
- & mi; kxh I puk dh I e; ij i kflr fu.kz yus dh {kerk dks c<krh gA
- & I puk mi; kDrkvka dh vfuf'prrk dks ?kVv dj I urq"V dks c<krh gA
- & fdl h Hkh I puk dk eku dHkh Hkh 'kU; ugh fd; k tk I drk gA tc rd fd fu.kz fuekZrk ml mi yC/k I puk dh mi \$kk bl izdkj I sdjsdh tS sfu.kz yus grqog tkudkjh mi yC/k gh ugh gA
- & I puk dh ek=k dh n"V I sfu/kkZjr eku fdl h vU; I xg xfrfof/k; ka I svf/kd egRo iwz ugh gsrk gA

4-8 I puk rd igp eavojksk (Barriers to Access to Information) :-

'kkskj fodkl , oai zll/kdh; fØ; kdyki kagsql puk dh fujlurj vko'; drk gksrh gÅ xfkky;] I puk dlnj izys[ku dlnj jk"Vh; I puk izkkyh vks {ks=h; us/odz vkfn l nsk , oa I pukvka dk mi ; Ør ek/; eka }kjk I pkj ; k l Ei ßk.k djrs gÅ fdllrqns[kusea ; g vkrk gSfd mi yC/k oSkfud , oai ksj ksdh; I puk dk I pkj , oami ; ks l epr izdkj l sugh gks ikrkj ftl dsdkj.k I puk , oal pkj ds{ks= eadblck/kd dkjd gksrgÅ tksl I puk I pkj eavojksk i ßk djrs gÅ orëku eal I puk txr eagksjgh of) vks fodkl vks , d sgh vl; dkj.k gÅ tksl I puk dsLora= idkg vks I puk vks Kku ds l epr mi ; ks eavojkskd dk dk; Zdj jgs gÅ tks fuEukuq kj gÅ%&

4-8-1 vR; f/kd ek=k eal I puk dk mRi knu %&

foKku vks i ks kfxdh ds {ks= eavnHkr fodkl] vuq ðkku vks vkfo"dkj gq gÅfd muds ifj.kke Lo: i oSkfud l kfgR; xqkkRed , oal ð; kRed nf"V l sbruh rhoxfr l smRi kfnr gq/k gÅ oSkfudka , oavloškda dks vi us dk; Zks= dh I puk l kefxz ka l si wkr-%voxr gksuk Hkh l Hko ugh jgk gÅ ; | fi I puk i ks kfxdh ds vuqz ks }kjk I pkj i fØ; k earhork vo'; vk jgh gÅ fQj Hkh cgr l k I puk l kfgR; fofHku izys[kh; vks vi izys[kh; Lo: i ka ea vc Hkh mi ; ksghu voLFkk eal I puk ds<j ea0; FKZ l j f{kr i Mk gq/k gÅ bl izdkj vR; f/kd ek=k eal I puk dk mRi knu vojkskd dk dk; Zdjrk gÅ

4-8-2 Hk"kk vojksk %&

I puk dk mRi knu fdl h , d nsk eavFkok , d Hk"kk ea ugh gksrk cfYd l eLr fo'o ea fofHku Hk"kkvka eafofHku ek/; eka ds vlurxZ bl dk izdk'ku @ mRi knu gksrk gÅ fdl h Hkh I puk oSkfud vlošk ; k vuq ðkkudrkz dks fo'o dh l eLr ; k vf/kdkr-%Hk"kkvka dk Kku ugh gksrkA vr%I puk dk mi ; ks djust sog oapr jg tkrk gÅ bl izdkj Hk"kk I puk ds l Ei ßk.k eavojkskd cu tkrh gÅ

4-8-3 foRrh; vHko %&

dkbzHkh xfkky; vks I puk dlnz l eLr mRi kfnr I puk l kfgR; dksØ; ugh dj l drk D; kfd ml ds l ð k/ku l hfer gksrgÅ vks l kfk foRr ds vHko ea uhu I puk rdudh dk i wkr-%vuqz ks ugh dj l drkA vr%cgr l h I pukvka l soapr jg tkrk gÅ bl izdkj l ð k/ku dk vHko Hkh vojksk i ßk djrk gÅ

4-8-4 LFkuHko % xfkky; ka, oal puk dntkaea bruk LFku Hkh mi yC/k ugh gkrk fd og vfkdkak I puk I kexh dks0; ofLFkr djdsj [k I dA vr%LFku dk vHko Hkh vojksk i shk djrk gA

4-8-5 I e; Hko % vuq akkudrkz/ka vloskdavks I puk oSkfudkads i kl bruk I e; Hkh ugh gkrk fd vi usfo"k; {ks= ea mRi knr uohu I pukvka ds I cak ea fofHku L=krka@ek/; eka I s I puk dh tkudkj i klr dj I dA bl Hkfr I e; dk vHko Hkh , d vojkskd gkrk gA

4-8-6 mfpr I puk L=kr dh vi yHkrk % fo"k; fo'kskKla oSkfudkavks vuq akkudrkz/ka dks vi usfo"k; {ks= I s I cak I puk dk idk'ku vFkok mRi knu djus oks I puk L=karks dh tkudkj ughagr h vks dHh&dHh tkudkj gks i j Hkh ; s I yHk ugh gks i kra vr%og I puk I soipr jg tkrsgA

4-8-7 jktufrd I cak % vk/kfud oSkfud , d i ks kfxdh ds fodkl us fofHku ns kka ds e/; , d jktufrd pruk mRi lu dj nh gA vkt fo'o dbz vyx&vyx I engka ea ca/ x; k gs vks dkbz Hkh ns k vi us I sfHku I eng ds ns k dks vi uh rdudh I svoxr ugh djuk pkgrka fo'ksk: i I s i frj {kk ds {ks= ea og vi uh rdudh I puk dk xki uh; j [kuk pkgrk gA bl i dzk I puk I puk ds Lora= idkg ea vojksk mRi lu gkrk gs vks fodkl 'khy rFk vYi fodfl r ns k i Hkfor jgrsgA dHh&dHh , d jk"V^a dsoSkfudka, oavud akkudrkz/ka dk nw jsjk"V^a dsoSkfudka , oavud akkudrkz/ka ds I kfk ij Lij I cak LFkfi r djuk mu jk"V^a dh jktuf; d I cakka ij fuHkz djrk gA vr% mudse/; jktufrd I cakka ds dkj .k I puk I pkj ea : dkoV mRi lu gkrh gA

4-8-8 I e; vlrjky % I keku; r% i yf [kka ds idk'ku ea idk'kda }kj k dkQh I e; yxk fn; k tkrk gA tc ; g I puk I kexh idk'ku dsi 'pkr mi ; kDrk rd igprh gSrc rd ml dh mi ; kfxrk vks egRo i k; % I ektr gkppk gkrk gA bl idkj efpr ek/; eka ea vfk/d I e; yxus ds QyLo: i I puk I pkj ea vojksk mRi lu gkrk gA

4-9 I þkj ek/; e (Media of Communication) :-

Þkj ek/; e er hkkh gkð fdruh gh mRre gkð fdruh Hkh egRoi wkz gkð og rc rd mi kns vFkok i Hkkoh ugh gkð l drh tc rd fd og ml ds vFkk: fp okys0; fDr ds ikl igpp u tk; A vks ; g rHkh l Hko gS tc l þkj dk l þkj 0; ofLFkr vks l eþpr <x l sgks vks ml ds l þkj ea dkbz ck/kd mRi uu u gks vFkkð~l þkj dk i þkj ml ds l tudrkz l smi ; kx drkz rd Loræ : i l sck/kkj fgr gkð bl l Hkh dk; Zeal þkj ek/; eka dh egRoi wkz Hkðedk gkð h gð l þkj dsek/; e fuEu gkrs gS%&

4-9-1 eK[kd l þkj (Oral Communication) :- eK[kd : i l sl þkj dk l þkj djuk i jkuk ek/; e gð dkbz Hkh uohu fopkj ih<h nj ih<h Lefr ds vk/kkj ij vks sc<fk jgk gð ; g , d rjhdk Fkk ft l l sl þkj dk , d 0; fDr l snl js0; fDr rd l þkj gkð Fkka eK[kd l þkj rhore l þkj gSft l eafcu l e; u"V fd, fd l h l þkj vFkok rF; dk eK[kd : i l s , d 0; fDr l snl js0; fDr rd igpp; k tkrk gð 'kð{kð l ðFkkvkaef' k{k k inku djus dh ; gh fof/ k mi ; kx ea ykbz tkrh gð eK[kd l þkj ikphu ; x l syðj vkt Hkh vi us vLrRo ea gð

4-9-2 'KfCnd l þkj (Verbal Communication) :- 'KfCnd l þkj dk vFkz eþnr : i ea vFkkfyf[kr l þkj l sgkð gð orðku l ekt dk i æ[k Hkkx l þkj ds 'KfCnd l þkj ij gh vk/kkj gð ; g ek/; e l þkj ds l æg.k , oal j{k.k djus dk , d i Hkko'khy ek/; e gð vkt l kfgR; rFkk l þkj ds l Hkh L=kr eþnr : i ka tS & i þrdkþ if=dkvkþ fo'odks kþ 'kCnd ks kka vkn ea gh fufgr gkrs gð ftul sl þkj dk l þkj gkð gð 'KfCnd l þkj l nð l sl þkj ds l Ei ðk.k dk , d ykðfiz ek/; e jgk gS vks vkt Hkh gð

4-9-3 n'; J0; l þkj (Audio-Visual Communication) :- vkt l þkj ds i Hkko'kkyh ek/; eka ean' ; & J0; ¼ns[kus , oal quus½ mi dj.kka dsek/; e l sl þkj dk l þkj djuk vR; f/kd egRoi wkz ekð; rk i klr dj ppk gð bl ea dðy n' ; mi dj.kka vFkok J0; mi dj.kka vFkok , d l kFk nksuka dk mi ; kx fd; k tkrk gSft ueafp=] pkVð] uD'kð LykbMð] fQYe fLVðl] ohfM; ks Vðl] dðl V vkfn vkrs gð bu n' ; & J0; mi dj.kka dk vyx l s rFkk eK[kd vFkok 'KfCnd l þkj ds l kFk Hkh l þkj l þkj dh i Hkko'khyrk eaof) djus ds fy, fd; k tk l drk gð vkt ds vk/kfud fo | ky; ka ea bl h ek/; e ds l kFk f'k{k dk v/; ki u d{k vka eafð; k tkrk gð bu mi dj.kka dk mi ; kx i kS+f' k{k dk; Øeka dks l þkj fyr djuses vf/kd i Hkkodkj h jgrk gð

4-9-4 ekl &efM; k I pkj (Mass media Communication):- I puk I pkj ds {ks= eafi NysdQ I e; eafQYe] jfM; ks, oaVsyhfotu vkfn esvR; f/kd ykdfiz rk i klr dh gA pfid vkt ds I e; e] I e; dk vR; f/kd egRo gSbl fy, I puk ds 'kh?kre I pkj eabu ek/; eka dh egRo i wkZ Hkfedk gSft I sekl &efM; k I pkj dgrsgavk; ; sorZku I e; eal puk izdh. kZ ds I keku; I k/ku gA

4-9-5 nj I pkj (Tele-Communication):- I puk I pkj ds vk/kfud : i dks nj I pkj gh dgk tkrk gSft I eaVsyhQks] Vsyhfotu] jfM; ks rjaks rFkk Qkbcj vkfIVd dcyka dk mi; ks fd; k tkrk gA nj I pkj ea /ofu dk byDVkfud I pkj fd; k tkrk gA nj I pkj i ks] ksxdh] dEI; Wj vk/kkfjr xkky; i) fr ds Rofjr fodkl dk , d vko'; d dkjd gA vkt dy nj I pkj dsek/; e I sxkky; ka dse/; us/odZ LFkfi r gsk I Ehko gsk I dk gA

4-9-6 I SykbV I pkj (Satellite Communication) :- I puk I pkj ds {ks= ea I SykbV dsek/; e I sgksokys I pkj us, d Økardkjh i fjoZu yk fn; k gA vc I SykbV ds ek/; e I s I puk dk iz kj. k djuk nsk ds, d dks I snw js dks rd I Ehko gsk I dk gA ; | fi bl ; q dh 'kq vkr I a Dr jkT; vesjd rFkk : I }kjk vUrfj {k eanks I SykbV dh LFkfi uk djus I i kj Ehk gpZ gA vc Hkjr us Hk vius I SykbV I LFkfi r dj fn; sgA I SykbV dsek/ ; e I s MkVkvka dk I Ei k. k fo'o0; kih Lrj ij fd; k tkuk I hko gsk I dk gA

4-10 L=kr , oai ki d eal ak LFkfi uk (Linking of Source and Recipients):-

I puk I ok inku djus dsmnæs; I svud I puk L=kr] efnr vk; vefnr ek/ ; eka eami yC/k gA 'kkskdrkZ/ka dh fof'k"V vko'; drkvka dh I Urq"V gsrq LFkkuh;] {ks=h;] jk"Vh; vk; vUrfj kZVh; Lrj ij fofHku I puk ru=kavk; dk; Øeka dks LFkfi r fd; k x; k gA I Urkktud I puk I ok inku djus gsrq I puk L=kr dk xgu Kku gsk vko'; d gSft I dsfy, I puk L=kr mi dj. kka dh vko'; drk gsrh gA

i R; d iys[kh; I puk L=kr eafok; foLrqdk I dsr inku djus gsrq fo'kSk I ph nh xbZ gsrh gA dHkh&dHkh bl ds I kFk vuDef. kdk Hk inku dh tkrh gS tks iys[k eaof. kZ fdl h fof'k"V fopkj dh vk; I dsr djrh gA dHkh&dHkh vrfj Dr mi dj. kka ds : i eafooj. kRed fVi .kh ds }kjk iys[k eafufgr I pukvka dks I e>kusdk iz, kl fd; k tkrk gA bl h izkj I puk dsf}rh; d vk; rih; d L=kr Hk i kFkfed L=kr kads mi ; ks eal gk; d gA ; s I Hk I puk L=kr ka ds iys[kh; mi dj. k gA

I p̄uk dh [kkst ea l gk; d mi dj.k& fo"̄k; I p̄h]vuøef.kdk] I p̄; h fo"̄k;
rkfydk v̄k̄j vuøef.kdk] fooj.kkRed fVli.kh] I kj.kh I p̄h v̄k̄j fp= I p̄h vkfn ḡA

4-10-1 fo"̄k; I p̄h

iR; d I p̄uk L=kr ea , d v̄lrfoz̄k; h i"̄B gkr̄k ḡs ftl ea fo'k̄k I p̄h ; k iys[k ds
v̄lrfoz̄k; fn; sjgrsḡA djUV dUVV† uked I p̄uk vfHkKrk I øk iw̄kz: i I sfo"̄k; I p̄h ij vk/
kkfjr ḡA bl ds }kj̄k fo'o ds vud oKkfudka dks ok̄aNr I p̄uk dh [kkst ea l gk; rk inku dh
tkrh ḡA

4-10-2 vuøef.kdk

vuøef.kdk dks I p̄uk L=kr̄ka dk egRo iw̄kz mi dj.k ekuk tkr̄k ḡA I kekU; r% i kFkfed]
f}rh; d v̄k̄j r̄rh; d I Hkh L=kr̄ka ea vuøef.kdk inku dh tkr̄k ḡA fofHkUu vfHkxeka dh I Urq̄V
gr̄qfofHkUu izkj I svuøef.kdkvka dk fuekz̄k fd; k tkr̄k ḡA I p̄uk L=kr̄k dh izdr̄ ds vk/kkj
ij mfpr̄ izkj dh vuøef.kdk dk fuekz̄k fd; k tkr̄k ḡA

4-10-3 I p̄; h fo"̄k; rkfydk v̄k̄j vuøef.kdk, j

i kFkfed if=dk ds iR; d v̄d ds l kFk fo"̄k; I p̄h rFkk ok̄a"̄kd v̄d ds l kFk fo"̄k;
vuøef.kdk nh tkr̄k ḡA f}rh; d if=dkvka ea Hkh , d o"̄khz̄] i p̄ o"̄khz̄ ; k nl o"̄khz̄ vk/kkj ij
vuøef.kdk, j nh tkr̄k ḡA I p̄; h fo"̄k; rkfydk v̄k̄j I p̄; h vuøef.kdk, j I p̄uk dh [kkst ds
egRo iw̄kz mi dj.k ḡA

4-10-4 I kj.kh I p̄h

I k̄a[; dh izk'ku] gLr i q̄Lrdk] ok̄a"̄kdh vkfn ds }kj̄k fo'k̄ky ek=k ea l k̄a[; dh I p̄uk
mi yC/k djok; h tkr̄k ḡA vud l kef; d izk'kuk̄j 'kksk fofucU/kka v̄k̄j vU; izk'kuka ea Hkh
I k̄a[; dh M̄s/k mi yC/k gkr̄s ḡA mfpr̄ fn'kk funz̄k gr̄q I k̄a[; dh MkV̄k izk'kuka ds l kFk I kj.kh
I p̄h Hkh nh tkr̄k ḡA bl h I p̄h ds }kj̄k i k̄Bdka dks ok̄aNr I p̄uk okyh I kj.kh dh [kkst ea l gk; rk
i klr̄ gkr̄h ḡs rFkk muds l e; dh cpr̄ gkr̄h ḡA

4-10-5 fp= I p̄h

vud izk'kuka ea fp= I p̄h t̄s sekufp=] : i fp=] Nk; kfp= vkfn dh I p̄h Rofjr i kflr
dsmn̄as; I snh jgr̄h ḡA fp=& I p̄h dks Hkh egRo iw̄kz I p̄uk L=kr̄k mi dj.k ekuk tkr̄k ḡA bl dh
I gk; rk I sfdl h LFkku dh [kkst] fdl h 0; fDr̄ ds Nk; k fp= vkfn dh tkudkj̄h i klr̄ gkr̄h ḡA

4-10-6 fooj.kRed fVli.kh

I puk dks l jy : i l sck/kxE; cucus dsmnns ; l s' kCndks k] fo' odks k] funf' kdk vks
vll; I puk L=krka eafooj.kRed fVli.f.k; k; nh tkrh gA

4-10-7 I puk L=krka dsekxh'kd

mi ; ksdrkz/ka dh l gk; rkFkzfofo/k i zdkj ds i kFkfed] f}rh; d vks r}rh; d I puk L=kr
i zkf'kr gksjgsgA i kFkfed L=kr dsfy, vupe.khdj.k vks l kjdj.k l ok, ainku dh tkrh gA
f}rh; d vks r}rh; d L=krka dh l d; k ea gksjgh yxkrkj of) ds dkj.k blga ; kn j [k i kuk Hkh
vR; Ur dfBu gA bl l eL; k ds l ek/kku grqI puk L=krka dsekxh'kd dk i zdk'ku fd; k tkus
yxka vko'; drkuq kj bu ekxh'kd L=krka dk fo"k; {ks= fu/kkzjr fd; k tkrk gS tS } l ekt
foKku] tho foKku] j l k; u foKku vkfna

4-11 I puk QSyko (Information Diffusion)

i kjEHk ea Kku vks I puk doy xBFkky; kard gh l hfer Fkh vks ogha i y[kka ds : i ea
l afgr vks l jf{kr jgrh FkhA ; fn ml l e; fdl h 0; fDr dks vi us fo"k; l s l aB/kr fdl h
I puk dh vko'; drk gkrh Fkh rksog xBkky; ea tkdj gh vi uh vko'; drk dh I puk i klr dj
l drk FkA orZku l e; eal puk , d 'kfDr vFkok l d k/ku ds : i eamHkj dj vk jgh gA ml dk
mRi knu dbZL=krka l sgksjgk gsvks dbzfof/k; ka l sfd; k tk jgk gSft l l sl afgr j [kusgrqtgk
i gysefnr Lo: i & xBk] i =& if=dk, j ifronu] l Eesyu dk; Bkfg; k; vkfn FkA bu ek/; eka l s
; Fkk' kh?kz I puk dk l Ei Bk.k ugh fd; k tk l drk FkA vr%vc bl dh l afgr rFk l Ei Bk.k ds
Lo: i dh Hkh ubZ i kS] kfxdh dsek/; e l si fjofrZr gksjgsgA ubZ I puk i kS] kfxdh us dEl; wj]
nij l pkj vks l v/sykbV dk mi ; ks djds tggk I puk ds l aq.k ds Lo: i dks i fjofrZr fd; k gS
ogha bl ds l Ei Bk.k vks I pkj dks Hkh nr xfr inku dh gA

4-12 I þuk dsLo: i (Forms of Information)

Lo: i l s r k R i ; Z f d l h f L F k r] f o ' k s k r k] n ' k k] e k / ; e 0 ; o L F k k v k f n l s g a f t l f n ' k k e a d k b z o L r q f n [k k b z n s h g s o g m l d k H k k s r d Lo: i g k r k g s t s s x b f k v k f n A e k u f l d i f r H k k ; k d k b z i f o f / k ; k d Y i u k v k f n H k h , d v n ' ; Lo: i g k s l d r s g a l þ u k d s d n i æ [k Lo: i f u E u k i d r g %

- 1- i y s [k
 - 2- i y s [k l s l E c f u / k r l a n H k z
 - 3- M k v k] r F ; , o a f o ' k s k v F k z e a l þ u k
 - 4- f u n i k k R e d M k v k
- m i j k D r d s v a x z f u E u f y f [k r i y s [k v k r s g %

v f h k d Y i , o a j s [k k f p = h ; i y s [k	t s & e k u f p =] x k Q] l y k u] i k k V I] j s [k k f p =] i a V X I] Q k s / k s c k Q] L y k b M t v k f n
/ o f u i y s [k	t s & x t e k Q k u f j d k M z] v k f M ; k s / s l v k f n
J 0 ; & n ' ; i y s [k	t s & f Q Y E I] v k f M ; k & o h f M ; k s V s l f M L d v k f n
e s u s V d i y s [k	T k s & d E l ; w j e a l þ u k d k s l a p r j [k u s o k y s e k / ; e

4-13 I þuk fl) kar (Basic of Information Theory):-

I þuk fl) kar dh [k k s t l u - 1 9 4 8 e a d y k M ' k s u - u s v i u s , d d k ; Z l þ k j d k x f . k r h ; fl) kar e a d h F k h A b l fl) kar d k v k / k k j H k r i f j . k k e l k d Z d k M F ; k j e g a l þ u k fl) kar v u e k f u r i f j d Y i u k , o a l k a [; d h i j v k / k k f j r g k r h g a ' k s u - d s } k j k ; g fl) kar r c f o d f l r f d ; k x ; k F k t c o g V s y h Q k u y k b u d s } k j k ' k k j d h f c u k v i s k d s n k s k i w k z l a n s k d k s i s ' k r d j u s d k d k ; Z d j j g s F k a c f l d e k M y e a l þ u k L = k r d s } k j k l a n s k m R i U u f d ; k t k r k g s o p s u Y l d s } k j k ; g l a n s k i s ' k r g k d j i k l r d r k z r d i g p r k g a b l F ; k j h d s v k / k k j i j ' k s u - u s ; g L i " V f d ; k f d f d l h p s u Y l d s } k j k n k s k i w k z l a n s k d k s ' k k j d s c o t m H k h i s ' k r f d ; k t k l d r k g a d q k y d k M d s } k j k l w p k d h x q k o R r k d k s c < k d j v k l k u h l s i s ' k r f d ; k t k l d r k g a

dHkh&dHkh l p u k d k s ' k C n k a d s v k / k j i j e k i k t k r k g a t s s f d l h b y D V k f u d e y d s
l a n s k d h y a c k b z ; k l a ; k 1/4 t s s v s y h Q k u d k u e c j 1/2 i k j e i f j d : i e a l p u k f l) k a e a l p u k
d k s f c v b d k b z e a e k i k t k r k g a f c v e k i u d h o g b d k b z g s f t l e a c k b z j h l a ; k 0 o 1 d k
i z k s x f d ; k t k r k g a D ; k i d r h u f c v d s d o y 8 l h k k f o r i z d k j g s 1000] 001] 010] 011]
100] 110] 101 v k s 111 1/2 g e 3 f c v d k m i ; k s x d j 1 l s 8 r d d s i w k k z d l a ; k d k s d k m
d j l d r s g a v r % t c g e 3 f c v l a ; k d h c k r d j r s g a r k s g e k j k v f h k i k ; 1 l s 8 r d d s
i w k k z d l a ; k l s g k s k g a

4-13-1 d q k y d k m (Efficient Encoding):-

d k m c u k u k , d i f 0 ; k g s f t l d s } k j k l a n s k d k s f l x u y e a i f j o f r z d j i s " k r f d ; k t k r k
g a d k m b l r j g l s r s k j f d , t k u s p k f g , r k f d l p u k r h o r k l s v k s d q k y r k l s i k l r d h t k
l d s r f k k v l i " V r k , o a l h k k f o r n k s k k a d k s n i j f d ; k t k l d a

t s s g e f d l h f l D d s d k s , d d j k m + c k j m N k y r s g a v k s i k l r i f j . k k e a d s 0 e d k s f y [k r s
t k r s g a v x j g e b l f y f [k r l p u k d k s f d l h 0 ; f D r d k s l p k f j r d j u k p k g r s g a r k s g e a f d r u s
f c v d h v k o ' ; d r k g k s c h \ v x j , d l k e k u ; f l D d k i z k s x f d ; k t k , r k s e k = n k s g h l h k k f o r
i f j . k k e g k a s f p r v k s i v t k s d l k e k u k l E h k k o u k f y , g k s c k A b l i z d k j i R ; d c k j m N k y s t k u s
i j g e a 1 f c v d h v k o ' ; d r k g k s c h l p u k h k s t u s d s f y , A v k s g e a i j s 0 e d k s h k s t u s d s f y , , d
d j k m + f c v d h v k o ' ; d r k g k s c h A i j u r q ; f n d k b z f l D d k i { k i k r h : i l s i h k k f o r f d ; k t k , r k s
f p r e k = 1 @ 4 c k j i k l r g k s c k j r f k k i v 3 @ 4 c k j b l i z d k j l E i w k z 0 e d k s v k s r 8 1 1] 3 0 0 f c v
e a h k s t k t k l d r k g a b l l s g e , d f l D d s d s m N k y d k s , d f c v l s d e e a d s s h k s t a c a
t c f d m i y C / k h k k " k k e a e k = 0 v k s 1 g s t k f g j g s u g h d j l d a c a y f d u g e k j k m) s ;
m N k y u s l s i k l r i f j . k k e a d s i j s 0 e d k s h k s t u k g s v k s v k u s o k y h f o r j . k l a ; k i { k i k r ; 0 r
g k s r c g e v i u k K k u f o r j . k d k s p u d j d q k y d k m r s k j d j u s e a i z k s x d j l d r s g a b l s
v l ; r j g l s h k h l e > k t k l d r k g s &

i { k i k r i w k z m N k y d k 0 e d e l p u k f y , g q g k s k g s c t k ; s f d l h v i { k i k r m N k y d }
v r % o k s d e f c v d k m i ; k s x d j r k g a f p r i k l r g k u s d h o g h f l F k f r n ' k k z u s g r q d k m r s k j
d j r s l e ; g e a 2 0 f c v g j f p r d s f y , p k f g ,] i j u r q ; g g e a f p r d k s f d l h h k h 0 e e a h k s t u s
d h l f o / k k n s r k g a v x j g e f p r d k s 0 ; o f l F k r : i e a h k s t u k p k g a r k s ' k q l s v a r r d g e a r c
c t k , l V h d f l F k r h d s e k = l E i w k z i k l r f p r d h l a ; k g h h k s t u h g k s c h t k s f d d e f c v d k
i z k s x d j s c k A

4-13-2 I puk l kexh dk eki u (Measuring Information Content):-

vxj ge fdl h , d si kpl sdx iz kx dja tksfd 8 eq kh gkA , d seaD; kfd 8] 2 dh ?kkrkad 3 gsvr%, d: irk l Hkk0; forj.k dh x.kuk vkl ku gStksdh ykkk 8 = 3 fcV gkskA pj yEckbz dkm dsfy, ge , d fof'k"V Lo: i l j puk dk blreky djrs gā t gk; ge vko'; d fcV dh l ā; k dks l h/kfxu l drsgA

I puk fl) kar gea, d , d k l # nrk gSft l l sge vko'; d fcV dh l ā; k dk fu/kkj .k dj l drsgārc Hkh tcf d ge dkm dksugh tkursgA l cl sigysge , d: i l Hkkfor forj.k dksn[ka t gk; i klr ifj .kkekadh l ā; k 2 dh ?kkrkad ugh gā ekuk gekjsi kl , d i k j Eifjd i kpl k gSft l ds 6 eq k gkrsgA rc , d ckj Mkysx, , d si kpl sl si klr ifj .kke dks l p k f jr djusdsfy, ykkk 6= 2-58 fcV mi ; kxh gkskA ; gk; Hkh ge , d ckj dsifj .kke dks 3 l sde fcV eaugh Hkst l dr\$ i j Urq bl izkj Mkysx, i kpl sdsØe dksge vks r 2-58 fcV dk iz kx djds l p k f jr dj l drsgA bl izkj i klr dkm okLrfod : i ea t f Vy g\$ y f du , d /k j .kk dsvud k j t k f d l k /k j .k v k \$ 3 fcV @ Mkyus l scgrj g\$ bl ea i kpl s Mkyus dks , dy u ekursgq] mlgsrhu ckj Mkyusds l eng es, dy ekuk tkrk gā bl izkj l Hkkfor rhu i ka s MkyusdsØe dh l ā; k 6 dh ?kkrkad 3= 216 gkskh] 8 fcV dk mi ; kx djdsge 0 l s 255 ds chp dh l ā; k dks dkm dj l drsgA rks ; s rhu & QndusdsØe 8 fcV eadkm fd; k tk l drk gā ; s9 fcV dk mi ; kx djus l svf/kd mi ; Ør gStcf d ge i R; d rhu & Qndusdks i Fkd i Fkd dkm djA

I Hkkkouk ds: i e p i R; d l Hkkfor N% i {k okys i kpl sds, d i {k ds i klr gksudh l Hkkkouk] P=1/6 gā I puk fl) kar crkrk gSfd U; ware fcV dh vko'; drk gSykkk P=2.58 A vxj ge fQj 8 i {k okys i kpl s dks n[ka rks ge ik, k sfd d q ky dkm r\$ kj djusdsfy, l e > k; k x; k g\$ i R; d l puk dh yEckbz fcydy l eku gSykkk P fcVA

vc n[ka fd ge l # dk iz kx i {ki krh l Hkkfor forj.k ead\$ sdj l drsgA , d pj X dks dkm dsfy, yrs gā v k \$ P(X) t k f d i klr e W; dh l Hkkkouk dks n' kkrk gSfy; k tkrk g\$ & , d e W; dks dkm djusdsfy, l Hkkfor fcV dh l ā; k c j k c j gS l Hkkfor e W; ds dkm dsfy, vko'; d Hkkfjr vks r ds t g k; dh Hkkj e W; dh l Hkkkouk g\$ &

$$\sum_x P(X) x - \log P(X)$$

vc ge fQj vi us i {ki krh fl Dds dks n[ka ; gk; pj dh jat nks ifj .kke ea g\$ & fpr v k \$ i V vxj fpr ek= 1@4 ckj i klr gksrk gSv k \$ i V 3@4 ckj] rc i klr ifj .kkekadks l p k f jr djus gsrq vko'; d fcV dh l ā; k g\$ &

$$1/4 x - \log (1/4) + 3/4 x - \log (3/4) = 0.8113 \text{ bits}$$

, d I kekk; fl Ddsdksvf/kd I pukk inku djuh gkrh gA D; kfid ; s, d mNky dsifj .kke
 dksl pkfjr djusgrqijjs , d fcV dk iz kx djrk g&

$$1/2 x - \log (1/2) + 1/2 x - \log (1/2) = 1 \text{ bits}$$

4-13-3 P ykk P l# dsihNsdk vlRkku (The Intuition Behind the Formula):-

P ykk P l# dh I pukk x.kuk djus ds ihNs vlRkku I e> iklr djusgrqI pukk dh
 I d; k vks mudh I hkkouk vka ds e/; }&; Drk dks vk/kkj ekuk x; k gA vxj ge fdl h Hkh 8
 I hkkfor I nsk dk dkm r\$ kj djuk pkgrsgf rksgea3 fcV pkfg,] D; kfid ykk 8 = 3 bitsA ge
 ; gk; ; g i wkr%eku dj dk; Zdjrs gdf I pukk dh iklr , d: i forj.k I sgksjgh gA bl sn'kkZus
 dk , d ofYid : i Hkh g& , d I pukk dsckjEckjrk dh I hkkouk 1@8 vks ykk 1/4 @ 8 1/2 = 3
 g\$ rksgea3 fcV dh vko' ; drk gkxh , s Hkh I nsk dksl pkfjr djusgrqpkfg, gkA chtxf.kr
 I slog n = - log (1/n) oks vo/kkj .kk, a I eku gkschaftuea I hkk0; forj.k ea, d: irk gkA I hkkouk
 vo/kkj .kk dksmi ; kx djusdk ykk gsf d tc forj.k , d: irk fy, gq u gksvks ge I k/kkj .k
 : i I sl nsk dksfxu ugh I drsgkarc Hkh I pukk I kexh dksge I hkkouk dsrks ij 0; Dr dj
 I drsgA

4-14 I kjlak (Let us sum up) %

I pukk dh vko' ; drk I e; dsvuq i ogn : i /kkj .k dj jgh gA I pukk dh mi ; ksrk
 eaof) djusgrq; g vfrvko' ; d gsf d bl dk I pkj mfr I k/kuka dsRofjr , oa I jyrki wZ
 fd; k tk I dA bl grqI pkj dsfofo/k ek/; eka ea yxkrkj foLrkj vks I qkkj dk pØ py jgk
 gA I pukk dks i hkkoh : i I sl pkfjr djusgrqbl dsdqky dkm r\$ kj fd; k tkuk , d tfVy
 ijUrqvko' ; d ifØ; k gA ftl ij I e> fodfl r djusdsi 'pkr gh uohu I pukk I pkj ek/; eka
 dk dqky iz kx I hko gkskA

4-15 Lo tlp vH;kl (Self check Exercise):-

- 1 I puk dsmi ; kxdrkz/ka ds i dkj dks I e>k, a\
- 2 I puk [kkst dsfofo/k i dkj dks I sgS\
- 3 I puk I okvka , oaL=krka ea D; k I fEefyr g\$ foj .k na\
- 4 I pkj dsek/; e dks&dks I sgS\
- 5 I puk fl)kr dks I e>kb, \

1-0 fo"k; i dsk

I keku; vFkZeaKku 'kCn l srkRi ; Zfuf'pr tkudkjH vFkok og tksKkr gS l s
gA Kku okLro eaKkuSlae; ka }jk i klr cks) d vuttko gSA cf) dsvHkko eaKku i klr
ughafd; k tk l drk A vr%ge ; g dg l drsgafd i R; {k} vuttko] i k; kfxd] dksky
vks tkudkjH ds }jk fdl h rF;] rRo vFkok oLrq l s i fjfpr gksuk vFkok ml sKkr
djuk gh Kku gSA eut; gh , d ek= , s k prsu i k.kh gS ml eafopkj] fpru] euu] eFku
vks vuttko i klr djusdh i ; kZr 'kFDr gksrh gS ftI dsvk/kkj ij ; g u; srF; ka vks
rRokal svoxr gksrk gSvks Kku vftZ djrk gSA Kku dsvfHkko vFkok mRi fuk eaks
i edk i {k gksrg& ¼½Kkrk ¼kower½½Ks ¼knowee½A vc eut; vFkZr Kkrk oLrq
, eafopkjka vFkZr Kkr0; ka l s i fjfpr gks tkrk gSrksKku dh mRi fuk gksrh gSA Kkrk ds
vHkko eaKku dk vLrRo l EHko ugha gSA tc eut; fdl h oLrq vFkok fopkj dh
vuttkir] cksk] fo'okl] rdZvks vuttko dsvk/kkj ij Lohdkj dj yrk gSrHkh Kku dk
l tu gksrk gS bl Øe dsfujlrj pyrsjgusl sKku dh cf) gksrh gSvks fuR; i fr Kku
ds fofHkko {ks=ka ea uohu mi yfC/k; k; gksrh jgrh gS vks ml h ds l kFk&l kFk Kku dk
foLrkj gksrk gSA Kku l nD xfr'khy vks l Ec/kZ jgrk gSA uohu fopkjka rF; ka vks
l pukvka dsvk/kkj ij 0; ogkfjd 'kksk dk pØ pyr k jgrk gSA uohu fo"k; {ks=ka dk
mn; gksrk gSvks Kku dh l f"V djrs gA

1-1 mnas;

bl bdkbZea vki dk i fjp; l puk , oAKku dh vo/kkj .kk] Kku dh iz-fr , oe-Kku dk
mnHko , oaeuoh; fØ; kdyki ka eaKku dh mi ; kfxrk l sdjk; k x; k gSA bl bdkbZ dks
i <usdsckn vki

& Kku , oal puk eavrj LFkfi r dj ik; xA

& Kku l puk ea i fjofrZ fdl izdkj gksrk gS bl dh tkudkjH i klr dj ik; xA

1-2 Kku% fjHkk"kk ,oa izlfr&

ifjHkk"kk%Kku dksfdl h ifjHkk"kk ds vrxZ l hfer djuk l jy ughagSD; kfd Kku dh vo/kkj .kkj {ks= vks iz-fr dkQh foLrr gSA Kku txr vl he gS vks bl dk fodkl cgqkrh; ½Multi-dimensional½ gS vr%bl ds ifjeki dks crkuk vr; r dfBu gSA dN fo}kuka us Kku dks ifjHkk"kr fd; k gS muds }kjk nh xbZ ifjHkk"kk, a bl izlkj gS &

jl y ½Russel½ ds vuq kj & beLr"d l Pph vFkok >Bh /kkj .kk fufeZ ugha djrk A eLr"d fo'okl fufeZ djrk gSA tc fo'okl ea l ca/kr rF; iklr gks tkrS gS rc fo'okl l R; ea ifj.kr gks tkrk gS vks ; fn l ca/kr rF; iklr ugha gks tks fo'okl xyr fl) gks tkrk gSA vr%; g dg l drsgSfd Kku l R; rk ij vk/kkfjr fo'okl gSAB

ly/s ½Plato½ ds vuq kj & PKku fpj l R; gSA l R; dh vks mledk l calha ml dh bl vfuok; Z fo'kSkrrk l sgh ; g l lko gks ikrk gSfd ml dsfy, l fO; cf)] bflae; kulkoe ey vuttkir vks ml dh pruk ds l nHkZ ea Kku vks vKku] l R; vks vuøku dse/; Hkn dj l drsgSAB

ts, l -'ljk ds vuq kj & PKku dS) d i) fr }kjk fu"ikfnr ifO; k dk ifj .kke gSAB , l -vkj-jakufku ds vuq kj & PKku l H; rk l jf{kr l puk dk l exz ; ks gSAB **caLVI ZU; wba/jus'kuy fMD'kujh vkQ bdky'k ylost ds vuq kj &** PKku okLrfod vuttko] 0; ogkfjd vuttko] dk; bdkyrk vkfn ds }kjk iklr tkudkjh gSAB

l aki eadgk tk l drk gSfd bog fuf'pr fopkj l ey ftl seut; vftZ dj l jf{kr djrk gSft l l sfd bl sfujUrj nll jsvll; ftKkl qka dks inku fd; k tk l ds Kku dgykrk gSAB

Kku dh iz-fr ½Nature of Knowledge½ &

Kku dks ml dh miyC/krk ½Availability½ vks iz-fr ½Nature½ ds vk/kkj ij fuEufyf[kr izlkjka ea foHkkftr fd; k tk l drk gS &

miyC/krk ds vk/kkj ij & Kku dks miyC/krk ds vk/kkj ij iedk rhu foHkkxka l sfHkkftr fd; k tk l drk gS &

o) fDrd Kku 1/2 Personal Knowledge 1/2 fdl h 0; fDr fo'kSk ds eflr"d ea mi yC/k Kku dks o) fDrd Kku dgk tkrk gSA ; g Kku fdl h 0; fDr fo'kSk dk vi uh Lokutkr I siklr futh Kku gkrk gSvr%bl sml 0; fDr fo'kSk dsek/; e l sgh iklr fd;k tk l drk gSA 0; fDr fo'kSk ds l kFk fopkj foe'kz ij vFkok i = 0; ogkj dj 0; fDrxr vFkok o) fDrd Kku dks iklr fd;k tk l drk gSA

I kekftd Kku 1/2 Social Knowledge 1/2 & ; g Kku I ekt vksj I ekt }kjk LFkkr I LFkkr, oal xBuka ds vf/ki R; e agkrk gSA ; g Kku Loræ , oal eku : i ea I ekt ds l Hkh l nL; kadsfy, mi yC/k jgrk gSA fofHku i zkj ds i qrdky; , oal puk dæ bl i zkj ds Kku dks mi yC/k dj kuseal g; kx dj rsgA bl sl ko ztfud Kku Hkh dgk tkrk gSA

v) & I kekftd Kku 1/2 Semi-Social Knowledge 1/2 & ; | fi vfhkfyf[kr Kku dks I kekftd Kku dgk tkrk gSfdurq dN vfhkfyf[kr Kku I ekt ds l Hkh l nL; k adks mi yC/k ughagkrk vFkr ml dk mi ; kx dN fo'kSk 0; fDr; kard gh l hfer jgrk gSA , d s vfhkfyf[kr Kku dks v) ZI kekftd Kku dgk tkrk gSA bl i zkj ds Kku ds vlxr v) Z i zkf'kr i zys[k] 'kkl dh; i zlk'ku] vks[k] fofHku vfhkys[k vkrn vkrsgA

o) fDrd] I kekftd vksj v) ZI kekftd Kku , d&nw jsdsi j d gSA rd] iz kx vksj fo'ySk.k ds vk/kkj ij o) fDrd Kku I kekftd Kku eafodfl r gks tkrk gSA o) fDrd Kku dh of) eal kekftd Kku , d egroi wZ vksj vko'; d L=kr ds: i ea dk; Zdjrk gsvksj o) fDrd Kku ds vk/kkj ij I kekftd Kku dk fuezk gkrk gSA bl i zkj nks i zkj ds Kku dse/; dkbZ Li"V I hek js[kk ughagSA nks ksg h , d nli jsdh of) vksj fodkl eal gk; d gSA vr%ge ; g dg l drsgafd Kku rF; i wZ fopkj kadk l em gSA tc ; g fdl h 0; fDr dseflr"d rd l hfer gkrk gSrc ; g 0; fDrxr vFkok futh Kku gkrk gsvksj tc fdl h vfhk0; fDr rd] iz kx vksj fo'ySk.k ds vk/kkj ij I ko ztfud : i l sdj nh tkrh gSrc ; g I kekftd Kku cu tkrk gSA Kku dsmnHko fodkl vksj ixfr eal ekt l 'kDr ek/; e ekuk tkrk gSA

i fl) Hkkrd 'kkl=h fteku 1/2 ziman 1/2 us I kekftd Kku ds l xBu dsegRo dh foopuk dj rsgg ml gks bl dh cf) vksj fodkl ds rhu dkjd ; k l /ku ekusg&

$\frac{1}{4}\frac{1}{2}$ jpuKRed Kku I α Bu $\frac{1}{2}\frac{1}{2}$ Lo; al α fBr $\frac{1}{3}\frac{1}{2}$ x β FkRed I α Bu ftI ea β Fkky; ka
 dk I α Bu I fefyr gSA jpuKRed Kku I α Bu mu iz kl ka dk i frQy gSftueavuttko]
 iz kx vks fujh{k.k ds vk/kkj ij rFk vuq dku dh fofHku fof/k; ka ds }kjk Kku dh
 jpuK ; k I f"V dh tkrh gS vks ml sI Ei f"kr fd; k tkrk gSA Lo; al α fBr Kku dk
 fuekZk , d iys[k eavU; iys[kka ds I mHkzm)j.k iZr α fd, tkrsgaabl I sfopkjka ds
 }kjk nkuks iys[kka dse/; LFkfi r fd; k tkrk gSA bl I sKku eaof) gkrh gSA ; g Kku
 dk : fpdj cks) d I α Bu gSA bl si qrdky; k/; {kkausKku i k jLi fd oxhZ-r rRokaea
 I s , d ekuk tkrk gSA β FkRed I α Bu , oal ip; k I kjdj.k vks vu β hdj.k
 if=dkvka , oavU; I puK mRi knkarFk I okvka ds vUr α r eny ; k i kFked iys[kka ds
 I α Bu dks crkrk gS; g I eLr izdkj dk Kku β Fkky; , oal puK d β eka }kjk I α fBr
 vks I pkyr fd; k tkrk gSA

iz-fr dsvk/kkj ij & Kku dks ml dh iz-fr dsvk/kkj ij e α ; r%rhu Jf.k; ka
 eafoHkftr fd; k tk I drk gS &

$\frac{1}{4}\frac{1}{2}$ rdZvFkok c α) I α r Kku $\frac{1}{4}$ Rational Knowledge $\frac{1}{2}$

$\frac{1}{4}\frac{1}{2}$ I gt vFkok vUrckZk $\frac{1}{4}$ Intuitive Knowledge $\frac{1}{2}$

$\frac{1}{4}\frac{1}{2}$ oKkfud Kku $\frac{1}{4}$ Scientific Knowledge $\frac{1}{2}$

$\frac{1}{4}\frac{1}{2}$ rdZvFkok c α) I α r Kku & bl izdkj dk Kku ik-frd vks
 i kFked Kku gS tks I Hkh euq; ka ea vUr α gr jgrk gSA ge I keU; r% i R; d
 oLr α inkFkZ dsckj sea tkus dk iz kl djrsga β dUr α ml ds I Ecu/k ea I h[kus dk iz kl
 ugha djrsA rdZ I α r Kku dks vuttkfir enyd] iz kxkfJr vFkok I dkjKRed Kku Hkh
 dgk tkrk gSA ; g i kef.kd rdZ I α r fopkjka ij vk/kkfjr gkrk gSA ; g Kku foKku
 ds {ks= ea I α k α rd Kku ds: i ea rFk vU; I keftd fo"K; ka ij vk/kkfjr gkrk gSA
 ; g Kku foKku ds {ks= ea I α k α rd Kku ds: i ea rFk vU; I keftd fo"K; ka ds {ks=
 ea n'kZ & 'kkL= ds: i ea fodfl r gkrk gSA

1/2 I gt vFkok vUrckk & rdZ vFkok cf) I ær Kku fodfl r gkdj
I gt Kku eafodfl r gkdj ifj.kr gks tkrk gSA ; g Kku dh I okp Jskh gSftI s
puksh ughanh tk I drhA bl eafLr"d] vUr%ijKrk] I e> vks) drk i R; {k : i
I sl Ec) jgrsgSA dHh&dHh ; g Kku efLr"d dh vopru voLFkk eai klr fd; k tkrk
gSA i R; d 0; fDr eaKku , d I eku ugha gsrk A

1/2 oKkfud Kku & I gt vFkok varckk Kku tc I i"V fl) kurk I #ka
ifjdYi ukvk fujh{k.k] ijh{k.k vks fo'ySk.k }kjk I æfBr] ifj"—r vks ifjHkkf"kr gks
tkrk gSrc og oKkfud Kku cu tkrk gSA ; g Kku I R; kfi r vks 0; ofLFkr gsrk gA
oKkfud Kku dh iæq'k fo'kSkrrk, afuEukidr gS&

1/2 ; g I i"V fl) kurk fu; ek I #ka vks iz kska ij vk/kfjr gsrk gA

1/2 ; g vfoHkkftr gsrk gSA bl dk foHktu rHh I EHko gStc foHktu dN
fuf'pr rF; ka ij vk/kfjr gSA

1/2 ; g I R; kfi r vks I 0; ofLFkr gsrk gSA

orZeku eafokku , oavks) ksd ds{ks= eaI æfBr I rr vuq akkuka dsQyLo: i
fujlrrj oKkfud Kku ds{ks= eafodkl gksjgk gSA u, &u, fo"ka ij I ztu , d , s h
Jdkyk gSftI dk dkz vUr ugha gSA oKkfud Kku , d 'kDr dk : i yspdk gsvks
bl 'kDr ij fu; U=.k I EHko ugha gSA

1-3 Kku dk mnHko (KNOWLEDGE GENERATION)-

vkfndky eaequo I H; rk dsfodfl r gks I siwZekuou thou i wZ-vLr0; Lr
Fkk vks I ak"z i wZ Fkk og Hkkstu vkfn dh [kkt eafujlrrj HkVdrk jgrk Fkk A taxy
eaddnew] Qy] tkuojka dk dPpk ek] vkfn [kdj viuh Hko[k dks 'kkr djrk Fkk A
'kjhj dks<adusvks I nh] xehZ I scpusdsfy, i Mhadh Nky ; k tkuojkadh [kky dk
mi ; ks djrk Fkk A vkfndky dsbl ekuo dk iz-fr dsI kFk ?kfu"B I ECU/k Fkk A og
ik—frd ?kVukvka dks n[kdj cgr I h oLrvk ?kVukvka vks rRoka I si fjpr gsrk x; k
A i k"kk.k ; q I sydj orZeku ; q rd Kku ds{ks= eacgq/k; keh i æfr vks fodkl gqk

gsvkš ; g Øe fujlŕj py jgk gA Kku txr vuur] fujlŕj vkš I nŕ xfr'khy , oa
I ŕ) Ŧ'khy jgrk gSA vko' ; drk vfo"dkj dh tuuh gSA vr%bl nŕ"Vdksk I sHkkŕrd
, oaI kekftd vko' ; drkvka dh iŕrZgrqfujlŕj grqew/Hkur 0; kogkfjd 'kkŕk dk pØ
pyrk jgrk gS tksKku txr dk fuekZk djrk gSA Kku txr dk {ks= vl hfer vkš
fo'kky gSA bl ds vuurxŕ Kkr vkš vKkr I Hkh dk izdkj dk Kku vkrk gSA iz-fr]
I ekt] 0; fDr vkš bl I sijs tks I R; vkš okLrfodrk gSmI sl e>uk vkš I EclU/k ea
Kkr djuk Kku dh I ŕ"V djrk gSA

; g ikodYi uk dh tkrh gSfd bl I a kj ea tc ekuo dh mRi ŕŭk gpZrksKku dk
Hkh I kFk&I kFk mn; gŕk D; kŕd eut; rdZ 'khy ik.kh gS vkš rdZ 'kŕDr ml dk
tUetkr xqk gsvkš gh Kku dk Hkh vkfn rRo gSA ekuo LoHkko dk , d ewyHkur vák
gSmI dh ftKkl qiŕŭk vkš ftKkl k dks ijk djusdk iz kl gh Kku dk mnxe gSA
vkfne dky eaekuo usviuh ftKkl wi-fr dsQyLo: i ik-frd ?kVukvka dksnš[kdj
mudh udy djuk i kJEHk dj fd; k A i RFkjkausVdjko I smRi Uu vŕXu dksnš[kdj ml us
Lo; ai RFkj Vdjkdj vkx yxkbZA bl h izdkj xŕkvka ds vuq i ml usedku cuk, A
ik-frd ?kVukvka dksnš[kusI seut; dksos k gh djusdk fopkj vk; k vkš vc og os k
dj ppk rksml dk fopkj i Ddk gksx; k fd vepl dke djusI svepl i fj.kke feyrk
gSA ; g dk; Zdkj.k I EclU/k eut; dsKku dk vk/kkj cuk A eut; us ik; k fd iz-fr
eafu; ferrk gsvkš bl dh iz-fr dksI e>k tk I drk gSA tš sjkst I ŕ Zdk mn; &vLr
gksuk] fnu jkr dk gksuk] plæek ds fudyus o fNi us vkfn useut; dksI e>us vkš
I kpusdsfy, i šjr fd; k A

/khj&/khjsekuo cgr I h oLŕvka ?kVukvka vkš rRokaI si fjfpr gksk x; k A i gys
og i ŕy pyrk Fkk A rRi 'pkr-ydMh ds cM&cM-yVBka dk mi ; kx dj ty ; k=k
djusyxx A /khj&/khjvU; ykxka dsI Ei dzeavk; k vkš ijLij I ŕknka dk vknku&inku
rRi 'pkr-oLŕvka vkš fopkjka dk vknku i nku i kJEHk gŕk vkš , d&nŕ jsI suohu&uohu
rF; ka dksI h[kuk i kJEHk fd; k bl izdkj ekuo , d 0; fLFkr thou ; ki u djusyxx A
i kJEHk eaml us vkš kjk vkš vko' ; drkuŕ kj mi dj.k cukusdsfy, i RFkjka dk mi ; kx

fd; k A fQj /khj&/khjsvU; /kkp/ka dk mi; ksx djusyxx A vc ekuo , d I kekftd
 ik.kh cudj I eng ds: i eaI kFk&I kFk jgusyxx] uohu oLr/ka , oarRoka dsI ECU/k ea
 tkuusdsfy, mRI pkr inf'kr djusyxx A

i kphu dky eaekuo vius Hkkoka vks] fopkjka dh fofHku i dki dsfp=k] fpUgka
 vkfn dsek/; e I s0; Dr djrk Fk A /khj&/khjsfpUgka dsLFkku ij 'kCnka dk iz ksx djus
 yxx vks] ml usvi uh Hkk"kk Hkh fodfl r dj yh A fopkjka dks I jf{kr j [kusdsfy, ml us
 ys[ku 'ksh fodfl r dj yh A fy[kusdsfy, i k]EHk eafeeh dk i fedk, i RFkj] peMk
 i Mka dh Nky vks] /kkp/ka vkfn dk iz ksx fd; k A bl i dki ekuo eamI dky dsKku
 dksI xfg] I jf{kr vks] I jf{kr j [kuk i k]EHk fd; k A /khj&/khjsekuo fofHku i dki dk
 Kku i kr dj viuh rdZkfDr dsvk/kkj ij I oZSB euq; cu x; k A vkt uohu&uohu
 rF; ka dk i jh{k.k vks] fo'y'sk.k dj Kku dks i kr djrk g\$ ml dk mi; ksx djrk gSvks]
 I pkj djrk gSftI I svU; ekuo I ekt ykHkkfUor gks I dsA

mi jkDr v/; ; u dsvk/kkj ij ; g Li"V gkrk gSfd Kku ekuo eflr"d dh gh
 nu gSA ekuo eflr"d }kjk fodfl r I elr rF;] fl) klr vks] fo'okl I xBr : i I s
 Kku dgykrs gA cks) d 'kDr ij vk/kkfj r Kku orku ea vf/kd vk/kfud vks]
 fodfl r gkrk tk jgk gSA

1-4 vkadMk I puk , oaKku dk rnyukRed v/; ; u

ge dg I drsgafd vkadMk I puk vks] Kku dh rnyuk , d 0; FkZ iz kl gSA dbZ
 ckj rks; g ns[kuseavkrk gSfd budk iz ksx vki I ea, d&nl js dh vfHko; fDr dsfy; s
 fd; k tkrk g\$ tcfD os fHku&fHku gA

vkadMk I puk vks] Kku ds varj&I cZk dksfuEufyf[kr mnkgj .k ds }kjk I e>k
 tk I drk gS%

vkadMk	vi fj"—r I kexh	: bZ
I puk	e/; LFk	/kkxk
Kku	i fj"—r mRi kn	di Mk

; gka: b] /kkxk vks] oL= vkadMk I ppuuk vks] Kku dsvki I h I ædk dks I e>us dsfy; smnkgj.k ds: i ea i Lr r fd; sx; sg&A ; gka; g dgk tk I drk gSfd vkadMk I ppuuk vks] Kku ; srhuksfopkj , d nli js I s I æd/kr g&D; k&id , d dk fuelZk nli js i j vkfJr gSA Hke I ekU; thou eabu 'kcnkads, d nli js dsfy, iz kx djus I sgkrk gS A vFkkr ykx I keku; thou ea vkadMk I ppuuk vks] Kku 'kcn dk mi ; kx , d nli js ds fy; s, d I gt : i ead jrsg&A ykx vkadMk dsfy; s I ppuuk ; k vkadMk 'kcn dk I ppuuk ds Kku vks] Kku dsfy; s I ppuuk ; k vkadMk 'kcn dk mi ; kx djrsg&A yfdu x&ky; , oal ppuuk foKku 0; ol kf; d ds: i eabu rhuksdk vki I h I ædk , oafof' k"V vFkZ I i "V gkuk pkfg; sA ft I I sfd i k&dkadh I ppuuk vko' ; drkvk&dk I gh <x I s i jk fd; k tk I dsA I ppuuk I æ"kr dh tk I drh gStcfd Kku 0; fDrxr I ænk gkusdsdkj.k vrfjr ugha fd; k tk I drk A i k& j I rhtk fy [krs g&fd vxj Kku 'kfDr gS rks I ppuuk rR{kf.kd 'kfDr gSA ; g Hkh dgk tk I drk gSfd ifjdYi uk dk i friknu I ppuuk dsvk/ kkj ij gkrk gS vks] ijhj{kr ifjdYi uk Kku cu tkrh gSA

i p&rdky; , oal ppuuk foKku ds Nk=k& 'k&k&Fkz, ka vks] dfez, ka dks ; g ckr /; ku ea j [kuh pkfg; sfd vkadMk I ppuuk vks] Kku dMh&nj&dMh vki I ea t&gq sg&gea Kku i æku eabu I Hkh d&M+ ka dks xg j kbZ I s I e>uk gksk A vkadMk vks] rF; ka dse/ ; I e>nkjh fodfl r djuh gksch vks] d&N fufgrk&Z fodfl r djus gks& tksgea I ppuuk rd igpk; &A bu I ppuuk& i j xgjsf&ru vks] euu I sd&N fn'kk, i fl) ka fodfl r gks& tks Kku vks] vUrr% i k&MR; ds: i ea Hkh ifjofr& gks&A

1-5 vf/kxe dh i fØ; k , oafI) kr %&

1-5-1 vf/kxe dk vFkZ , oa i fjHk"kk &

vFkZ & I h [kuk vFkkr vf/kxe thou Hkj pyusokyh I rr-i fØ; k gSA vkt rsth I scnyrsgq so&'od ifjo&k ea I keku; thou dsfuok& dsfy; s Hkh I h [kuk vks] i q% fl [kkuk vko' ; d gSA vkt I h [kuk v/; ; u'kkykvka rd gh I hfer ugha jgk gScfYd ; g tle I sy&j I rr pyusokyh i fØ; k gSA /; ku nsusokyh ckr ; g gSfd I h [kus

dh i fØ; k dHkh Hkh can ughagkrh gSA 0; fDr fujlurj dN u dN I h[krk jgrk gSA gk
bruk vo'; gkrk gSfd I h[kus dh i fØ; k dHkh em vls dHkh rhoz gks tkrh gSA 0; fDr
f'k{k I LFkkvka ea gh ugha I h[krk cfYd og ?kj] i fjokj] dk; LFky] I Md] I kffk; k
oLr vL LFkkuka; kfu iz-fr dsI Hkh vakaI sdN u dN I h[krk jgrk gSA I h[kuseadN
yks rnuq i vius0; ogkj vls dk; ZeaifjorU ysvkrsgvls dN yks /khesvud j.k
djrs gA vkt bl cnyrs gq sfo'o eavfuf'prrk gS tfVyrk gS i fjorU'khyrk gS
vls i fr; ksrk gSA bl eafVdsjgusdsfy; s t: jh gSfd ge vius0; ogkj ea I h[kus
dk xqk fodfl r djaA xFky; , oal puk dæ I h[kus ds vkn'kz dæ gSA ; s I h[kus
eamíhi u dk dk; Zdjrs gA

xFky; , oal puk dæ vf/kxe ; k I h[kusea'kkfCnd vf/kxe 1/2verbal learning1/2
I s I æf/kr gSA v: .k dækj fl g fy[krsgfd p'kkfCnd I h[kuk I s rkrI ; Z , d s I h[kus
I s gkrk gSft I ea0; fDr v{kj k v{kj ka I scus I kFkd] vFkzhu 'kCnk okD; k fplgka rFk
væka ds vFkka dks I h[krk gSrFk ml ds vk'k; dks I e>rk gP oLr %cgr I k Kku
'kkfCnd vf/kxe I svkrk gSA xFky; k/; {k , oal puk vf/kdkjh bl h 'kkfCnd vf/kxe
I s I æf/kr jgsgD; kfd xFky; , oal puk dækaea i k Bd ds: i eage ekuo I s I æf/
kr gA ekuoh; vf/kxe ea 'kkfCnd vf/kxe vR; r egRo i wkZ gSA

I h[kus ds }kj k 0; fDr Kku , oadkky dks vft r djrk gS ft I I s ml ds0; ogkj
ea i fjorU i fyyf{kr gkrsgA

ifjHk'kk %&

- 1- **xV/I , oavU; ds vud kj & pvutko vls** i f'k{k.k ds }kj k 0; ogkj ea i fjorU
gsk gh vf/kxe gSAB
- 2- **pkVI Zbzflduj ds vud kj & p0;** ogkj ds vaxhdj .k eamlufr dh i fØ; k dks
vf/kxe dgrsgAB
- 3- **oMofkZ ds vud kj & pu;** s Kku vls ubZ i fØ; kvka dks i ktr djus dh i fØ; k]
I h[kus dh i fØ; k gSAB

1-5-2 vf/kxe dsfl)kr %&

ekuo vf/kxe dsfofHkUu fl)krka dk o.kU bl idkj gS%&

- 1- jkst I L(Rogers) & á; æsufLVd F; kjh (Humanistic Theory) 1959
- 2- I s I L(Sears) & eukoS ys"kd fl)kr (Psychoanalytic Theory), 1967
- 3- I h, y-gy (C.L.Hull) & i Cyu fl)kr (Reinforcement Theory) dk ifri knu 1915 eavi uh i qrd pPrinciple of Behaviourf eafd; k A
- 4- c jfyu vls vl; (Berlyne & others) & ftKkl k , oavUoSk.k fl)kr (Curiosity and exploration) 1965
- 5- OgkbV (White) & {kerk vfhki j .k fl)kr (Competency motivation Theory) 1959
- 6- ohuj (Weiner) & xqkkjki .k vls oS fäd dkj .k & dk; ZI ædk fl)kr (Attribution & personal causation Theory) 1972

1-5-3 vf/kxe dh ifØ; k & xFkky; , oal p uk dæ vkn'kz I h[kus ds dæ

gSA xFkky; , oal p uk dæ i kBdka dks I h[kus dk vkn'kz okrkoj .k mi yC/k djkrS gä; gka xFkky; v/; {k , oal p uk vf/kdkfj; ka dh egRo i wkz Hkfedk gSA mlgs vi us nkf; Ro dk cMh I e>nkjh I sfuokg djuk gksk bl dsfy; st: jh gSfd fuEukidr ckrka dk /; ku j [kk tk; s %&

- 1- i kBdka dh eukofuk dks I e>uk vko'; d gSA gj i kBd , d fo'kSk idkj I s i frfØ; k djrk gSA
- 2- i kBdka ds I kFk I gkufkr 0; ogkj fd; k tkuk pkfg; s A
- 3- xFkky; dk okrkoj .k , d k gksuk pkfg; sfd og I h[kuseamíhi u dk dke djsA
- 4- , d h I ok, afodfl r dh tkuh pkfg; s tks i kBd dh vko'; drk dsvuq i gksA
- 5- n'; , oal J0; mi dj .kka dk vf/kdre mi ; ks fd; k tk; s A

6- iR; d ikBd dh I p̄uk vko'; drk fhklu gkrh gSA vr% ikBdka dh fof'k"V
vko'; drk dsvuq i gh I ok inku dh tk; sA

1-6 I p̄uk foKku ds {ks= vlsj 'kks'k dk; Z dschp I ekuk, a%&

oLr%Kku , oal p̄uk I kekftd I ank gSA I kekftd I ank I svk'k; tu&tu
I sgsvfkkz Kku vlsj I p̄uk I Ei wkz I ekt dsfy; sgSA ; g , d h I ank gsf t I dk ykHk
I ank I ekt vfkz /ke] tkfr] fyax] jak dk HknHkko fd; sfcuk I Hkh dks I gtrk , oa
I jyrk I sfeyuk pkfg; sA ; g Kku tksfd fo'o eami yC/k gsf ; g fdl h , d 0; fDr
dsefLr"d dh mit ughagsvfirggtkjka"kkā ds I rr ekuoh; fpru@euu dk , d=h
I efi; ; gSA vkt Kku , oal p̄uk dk I tu cgr 0; ofLFkr ; kstuk c) : i I sfd; k tk
jgk gSA Kku I rr o/kz'khy gkus ds I kfk cgr/k; keh Hkh gSA bl fy, bl dsfodkl dks
ydsj Li"V , oal Vhd vuoku i Lr djuk I Hko ughagSA I p̄uk , oaKku , d h I kekftd
I ank ds: i eamHkj dj I keusvk; } tks0; fDr , oajk"V^a dk I exzfodkl dj I drs
gSA ; g I p̄uk ekuoh; thou dsfofhklu i {kka I sl cā/kr gSA

Kku , oal p̄uk] tksfd I kekftd I ank ekus tksrjsgsf t I dk ykHk I ank
I ekt dks I eku : i I sfeyuk pkfg; sA fdUrqjKT; geskk I sgh bl ij fu; æ.k dk
iz kl djrk jgk gSA jKT; dkuu dsek/; e I sl p̄uk , oaKku dksfdl h u fdl h : i
eafu; æ.k djusdk iz kl djrk jgk gSA vkt bl I ank dksckš) d I ank vf/kdkjka
dsvraxr j [kk x; k gsf os I jdkj I p̄uk i d kj dks vkQhf'k, y] xks uh; rk] I skjf'ki
, oai zdk'ku i ath; u vkfn : i ka eafu; a=r djusdk iz kl djrh jgh gSA 0; fDr }kj k
Kku dks I ftr Kku dksckš) d I ank vf/kdkjh dsrgr I jf{kr fd; k x; k gSA bl ea
, d fuf'pr I e; vof/k rd I tđ ½Creator½ ds vkfFkd ykHk dks I jf{kr djusdk
iz kl fd; k x; k gSA oržku fMftVy okrkoj.k vlsj Hkfo"; dsfodkl ka ds ifji {; ea
I jdkja i dbrh dkuuka ea I rr- I aksku djrh jgh gSA

Kku , oal p̄uk vkt ds I rr- i fr; ksrk dsokrkoj.k ea vkfFkd I etufir vlsj
nl js I svkxscusjgusdk ek/; e Hkh gSA ; gka Kku , oal p̄uk vkfFkd I d k/ku ds: i
eans[ks tksrjsg ykka ds I kekftd , oavkfFkd fodkl dsfy; sbl I ank dk mi ; kx

fd; k tkuk pkfg; sA ; g , d }n g\$, d rjQ Kku , oal p̄puk dk I `td gSA n̄ jh rjQ
I ekt gS; fn i w̄k̄r% I `td dk fgr gh /; ku eaj [kk tk; srksbl I su d̄oy Kku v̄k̄j
I p̄puk dk foLrkj : drk gSA oju-yks̄ Hkh ml dsykhk I sof̄pr jgrsḡ n̄ jh rjQ ; fn
I ekt dsfgr dks i w̄k̄r%/; ku eaj [kk tk; srks Kku , oal p̄puk dk I `td grk̄l kfgr
gk̄rk gSA vko' ; drk bu nks̄ks dse/; I r̄gyu dh gSA

vkt I p̄puk dk ; q̄ gSA bl ; q̄ eal p̄puk 'kfDr dk i rhd gSvFk̄r 'kfDr vFk̄r
v̄k̄f̄k̄d 'kfDr v̄k̄j jktūfrd 'kfDr A u; k Kku v̄k̄j ubz I p̄puk vikj I Hkkoukv̄ka dk
I k̄r gSbl dsegro dksl e>rsḡ sl jdkjh , oafuth {ks̄= dsm | ks̄ usbl dsfodkl dks
I L̄Fkk̄Red : i inku dj fn; k gSvkt I p̄puk ds I `tu dsfy; sl x̄fBr iz kl fd; st̄k
jgs̄ḡ ftl dsrgr bu I L̄Fkk̄v̄ka dh LFk̄ki uk dh tk jgh gS%&

& 'kks̄k , oafodkl I L̄Fk̄ku

& iz ks̄'kkyk; a

& i r̄dky; , oal p̄puk d̄b̄æ

& d̄a k̄v̄z k

& 0; ol kf; d I āk

bl ds I k̄f̄k̄& I k̄f̄k̄ 'kks̄k̄f̄k̄z k̄j ōk̄k̄fudka , oafok̄k̄ka ds ijLij fopkj dsfy; s , d
lyVQk̄ez inku djus gr̄q̄v/k̄k̄syf [kr izdkj ds vk; k̄st̄u fd; s tk̄rs̄ḡ&

& d̄k̄W̄Ȳl̄l̄

& I ehukj

& odz k̄k̄W̄

& ehfV̄x

; s I Eesyu 'kks̄k̄f̄k̄z ka , oaōk̄k̄fudka dse/; I ōkn dse[; LFky gk̄rs̄ḡftul s
u; s Kku@I p̄puk ds vkok̄xeu , oafolrkj dks x̄fr feyrh gSA bl h rjg I p̄puk ds
foLrkj , oaōSyko dsfy; sōk̄k̄fud d̄bz̄ek/; eka dk I gk̄jk ȳrs̄ḡA

I þuk foKku&

Hkkjr eami fu"kn dky I sgh ; FkkEk Kku ds vFkZ ea 'foKku* 'kCn dk i pyu Fkk fdUrq ; yki ea I oal Eke I u 1840 ea Ogpsy us m | ksx foKku ds fodkl ea yxs gq s 0; fDr; ka dsfy; s I kbVVLV 'kCn dk iz ksx fd; k A rcl s I kbVVLV vksj I kbV i nks dk i pyu gSA gekjh ikddYi uk gSfd bl I d kj ea tc ekuo dh mRi fUk gpZ rks foKku dk Hkh I kFk&I kFk mn; gpyk D; kfid euq; rdZ khy i k.kh gS vksj rdZ kFDr ml dk tletkr xqk gSrdZ kFDr foKku dk Hkh vflrRo gSgekjsLoHkko dk , d enyHkur vak gS gekjh ftKkl qi d fUk vksj ftKkl k i jk djus dk iz kl gh foKku dk mnxe gSA foKku dk 'kkfCnd vFkZ g& 'fo'kSk Kku* fdUrqqj izklj dk fo'kSk Kku] foKku ughagSD; kfid fdI h Kku dks foKku dh dksV eavkusdsfy; srdZ xr gksuk pkfg; svksj ml dsfu"d"z iz ksx dh tkp ij I gh mrjus pkfg; sA

foKku iz-fr dk oLrqR I d kj dk ml ea gksus okyh ?kVuk fLFkr dk v/; ; u djrk gSfoKku dk ; g i {k ik-frd foKku dgykrk gSA ik-frd foKku ds vaxr & Hkkrd foKku] xf.krh; foKku] tho foKku vksj HkkHkZ foKku I fEefyr gksrs gSA rdudh dk ik-frd foKku I s?kfu"V I aak gSA ik-frd foKku ?kVukvksds'D; ka rFkk nD; vksj mtkZ dh iz-fr dks cnyrk gS tcf d rdudh ; g crykrh gSfd ik-frd i fD; k, adS sgkrh gSA rdudh ea-f"j bat hfu; fjax] pfdRI k foKku vkfn I fEefyr gSI exz: i I svk/kfuud iz ksx ea ik-frd foKku ds LFkk i j foKku 'kCn gh iz ksx ea yk; k tkrk gSA

foKku Øec) v/; ; u gSvksj vk'; drkuq kj fuxe u o vkxeu rdka dk mi ; ksx djrk gSA foKku fo'ySk.kkRed gksrk gSKkuktZ dsfy; sfo"k; oLrqdks [kM i z [kM/ka ea foHkDr djds, d&, d Hkkx dk xgjkZ I sv/; ; u fd; k tk I drk gSfoKku i {k.k ; kK; vksj vutko iz ksx ds }kjk ij h{k.k djus ; kK; v/; ; u gSA

1-7 Kku dk I ekt 'kkL= , oabl dh ehkd k %&

, frgkfl d nF"V I svxj ge fopkj djarks I ekt ea dN , d s rRo gksrs gS tks

ykska dks , d fof' k"V fn'kk ea vks c<us dsfy; s i Hkkfor djrs gSA ekuo] efLr"d
I kekftd fopkjka l svarr% i Hkkfor gsrk gSA fdl h l ekt dh vkfFkd , oa l kekftd
ifjLFkr; ka ml l ekt }kjk l ekt ds cks) d mRi knu l s l gl cak gh ugha vfi r q
vU; kb; kfJr Hkh gsrh gSA ekufi d <kpk vkj I kekftd Kku , d nll js l sLora= ugha
gSA

t kll Mh-oh- us, d fof' k"V l kekftd voLFkk vkj 0; fDrRo] efLr"d tksfd ml
l kekftd voLFkk dks cukrsgj dse/; vki l h fuHkjr k dsl od; ki d rF; Phenomenon½
ds Åij vi usxk ea/; ku dflær fd; k gSA , d l kekftd l egh ea, d rjg l smíhi uka
dk l egh g\$ tksfd 0; fDrRo 0; ogkj dks i Hkkfor djrk gSA vkRe fodkl dsfl) kar ds
nks vo; o gS%&

- 1- l kekftd i ; kbj .k cukus ea efLr"d mRi knka dh Hkfi edk
- 2- ckgjh nfu; k l s i klr míhi dka dk 0; fDrRo vocksku

l kekftd l kll—frd i ; kbj .k vkj 0; fDrRo efLr"d <kps dse/; l cakka ds v/
; ; u dsfy; sl kekftd igpku dk fopkj , d dflæ fclnqgSA , d ckj Kku , oa efLr"d
dk l kekftd vo/kkj .kk LFkfi r gks tkrk gSrks Hkk"kk ekuoh; l Ei Bk.k dsfy; svi fjgk; Z
l k/ku ds : i ea fn [kkbz nrh g\$ D; kld efLr"d dk l kekftd fodkl l Ei Bk.k , oa
okrkzyki ds : i ea?kfVr gsrk gSA

l ekt 'kkl= }kjk l ekt ; k l kekftd thou dk v/; ; u fd; k tkrk gSA ; g
l ekt dk oSkfud v/; ; u gS; g l Ei wkZ l ekt dk , d l exz bdkbz ds : i eav/; ; u
djus okyk foKku gSA bl ea l kekftd l cakka dk 0; ofLFkr v/; ; u fd; k tkrk gSA
l ekt 'kkl= dk e[; dflæ eut; l epk; dh l kefigd xrfof/k; k; t\$ s& jktu\$rd]
/kfeb] l kekftd] 0; ki kfjd vkfn l fEefyr gSA 0; fDr vkj l ekt ea ikjLifjd
fuHkjr k dkQh ek=k ea ikbz tkrh gSA tgka 0; fDr ea , d nll js ds l kfk l kekftd
l cak LFkfi r dj l ekt ds fuekZk vkj fodkl ea l gk; rk inku dh ogka l ekt us
0; fDr dk l kekthdj .k dj muds 0; fDrRo ds fodkl ea ; ksnku fn; k A

l ekt 'kkl= l kekftd l cakka dks l e>us ea l gk; rk djrk gSA ikjLifjd

tkx: drk I kekftd I æðka dk iæqk vk/kkj gSA bl izdkj I ekt dk vFkz døy
0; fDr; ka dk I eog ughagð I eog eajgusokys0; fDr; ka dk ijLij tks I æðk gð mu I æð
kka ds I æfBr : i dks I ekt dgk tkrk gSA bl izdkj I kekftd foKku I eLr izdkj
ds I kekftd I æðka ds0; ofLFkr Kku dk v/; ; u gSA

I ekt 'kkL= ea I Hkh izdkj dh I kekftd ?kVukvka dk v/; ; u i {ki kr jfgr
gkdj fd; k tkrk gS; g I kekftd I eL; kvka dk v/; ; u] fo'yðk.k , oafu: i.k dj
Kku dk I æg djrk gSvkð oðkfud tkudkj mi yC/k djrk gSA ; g Kku ds vfuok; Z
dkj dka , oa Kku ds chp I æðk crkrk gSA vr%; g fo"k; tkr dk , d , ð k fo"k; gS
ftI dk I æðk I Ei wKz Kku I sgSA

eukfoKku dk Kku I siR; {k I æðk gS; g Kku dh I h/kh 0; k[; k djrk gS; g eu
dk foKku gSbl dk I æðk ekuo eflr"d dh fopkj 'khyrk I sgSA eukfoKku ds Kku dh
mRi fUk dks Hkko ; k fopkj ka I s tkð/k x; k gSA fopkj ; k Hkko dk vFkz gSgekjh Lefr ea
I æfgr , ð h I ðkk tks fpru] euu] cfj) rFkk dYiuk vkfn dk ifrQy gSA

eukfoKku vutkoka , oa ?kVukvka ds I rdZvoykdu }kjk , df=r 0; ofLFkr Kku
gSA eukfoKku fofHku izdkj ds iz, kx , oavoykdu djrsgðvkð u; s Kku dk I tu
djrs gðA bl sekua 0; ogkj dk foKku Hkh dgk tkrk gSA ekuo dh pruk , oa0; ogkj
dk v/; ; u dj eukfoKku }kjk bl izu dk fo'yðk.k fd; k tkrk gSfd eflr"d ea , ð k
D; k gS tks fo"k; tkr dk fuekzk djrk gS; g fo"k; mu ekufI d i fØ; kvka I s I æð/
kr gSftuds }kjk Kku dk fodkl gkrk gSA

eukfoKku dk vrhr cMk gSvkð bfrgkl Nks/k gSA 2000 o"Kz; wukuh nk'kZudka
I seu dh fØ; k, a I e>usdk iz kl fd; k vkð bl fo"k; dk uke ^ekufI d n'kZu'kkL=*
j [kk x; k A 1850 bZoh rd Hkksrd okn izy gks x; k rks , d tezu oðkfud us
Hkksrdokfnrk ds ifrjksk ea vloðk.k djuk i kjðk fd; k A Hkksrd dfBukb; ka dk i Hkko
eflr"d }kjk eu ij gkrk gSA ekuo ds vk/kkj Hkr KkusUnz, ka i kp gð & vkð [k ¼nf"V¼
ukd¼æðk¼ dku¼ofu¼ tHk ¼Lokn¼ vkð Ropk ¼Li 'kZ blgh ds }kjk vki ffer Kku ge

i klr djrs vk jgs gāA

euksoKkfudka us fujlurj vuttkoka vksj vuđ akkuka ds }kjk bl ds fo"k; {ks= ea vffkof) dh gSA tksKku ds {ks= eaHkh dh vffkof) gSA bl ea v/; ; u vksj vuđ akku dh nf"V l s dbz mi {ks= fodfl r gg s gāft l ea i eđ[krk uñfud euksoKku] vksj kfxd euksoKku] l kekf'td euksoKku] l kepf; d euksoKku vkfn A

bl izdkj euksoKku l Ei wkz Kku txr l sl æf/kr v/; ; u dk , d egroi wkz vksj mi ; ksch fo"k; {ks= gSA

1-8 I kekf'td ehel k , oaxfky; &

i qrdky; foKku ds vaxr Kku dk v/; ; u fo"k; ka ds l æakka eafd; k tkrk gS fo'o fuekz k dh fof/k; ka i kphudky l s vk/kfud dky rd fo"k; ka dk fodkl i qrdky; ka eafofHkuu izdkj ds vffkfuf[kr Kku dk l æg.k dj fofHkuu rd uhdka ds }kjk ml smi ; kx gsrq0; ofLFkr fd; k tkrk gSA vk/kfud i qrdky; , oal puk dñæ Kku vksj l puk ds vf/kdkf/kd mi ; kx gsrqfujlurj iz kl jr jgdj Kku dk fodh.kz djrs jgrs gāA

i qrdky; , d l H; vksj l q l-r l ekt ds vfuok; zvax ds: i eaekus tkrk gSA ; sl Ei wkz Kku dks l g f[kr vksj 0; ofLFkr djrs gāfd l h Hkh i qrdky; v/; {k dk i eđ[k dk; Z Kku dk mi ; ksch Øe ea0; LFkki u djuk gSA bl ds fy; smi sfo"k; txr dh l j puk , oafodkl dk l e fpr Kku gkuk vko'; d gSft l l s fujlurj o/kz'khy Kku@fo'o txr dks l ek; kf'tr dj l dsA fd l h Hkh i qrdky; v/; {k dks l kekl; r% , d oxzdkj ds: i eaKku@fo"k; v/; ; u vko'; d gSA

i eđ[kr%fuEufyf[kr ckra i qrdky; v/; {kka ds fy; s Kku txr ds v/; ; u gsrq tkj nrh gā%

1- Kku@fo"k; txr dk v/; ; u &

i kphu dky eaKku@fo"k; txr dk foLrkj l hefr Fkk fdUr qoržeku ea'kksk ds foLrkj dsdkj.k Kku txr dk vuojr : i l sfodkl vksj foLrkj gksjgk gSbl l eLr

Kku dks l jf{kr j [ku} l jf{kr j [kus vks mi ; ksx grqmi yC/k djkus dh n"V l sKku
txr dk v/; ; u l qrdky; v/; {kka dsfy; svko'; d gSA

2- oxtbdj.k i) fr; kadh tkudkjh &

l eLr izdkj dsKku dsl eaf/kr i ysf[kkadks0; ofLFkr : i eaj [kuk i qrdky; v/
; {kadk mUknkf; Ro gSA ftl l sl gh l e; ij l gh l puk l gh i k Bd dks ml dk fcuk
l e; u"V fd; srRdky i ltr gks l dsA bl 0; oLFkk dsfy; si ysf[kkadksmudsfo"k; ds
vuq kj oxtbdj-r : i eaj [kuk vko'; d gSA Kku , oafok; kadk oxtbdj.k djus dsfy; s
i qrdky; v/; {kka dsfo"k; kadh i-z-fr] fo"k; fuekzk dh fof/k; k fo"k; kads i j l i j l eaf
k vkfn l si jfpr gksuk vko'; d gSA vr%fofHku fo"k; oxtbdj.k dh i) fr; kadh ml s
tkudkjh gksuh pkfg; sftl l sog oxtbdj.k dk dk; Z l pk: <x l sdj l dsA

3- l nHkZ , oal puk l ok mi yC/k djuk &

l Hkh fo"k; ka l sl eaf/kr l nHkZ , oal puk l ok mi ; ksxdrkz dks l yHk djkus dh n"V
l sKku@fo"k; txr dk v/; ; u l qrdky; v/; {kka ds vko'; d gSA

bl izdkj Kku dsl eafpr 0; oLFkki u ij gh i qrdky; l okvka vks i qrdky;
foKku dk l kj vkfJr gSA vr%i R; d i qrdky; v/; {k dsfy; s Kku@fo"k; dk v/
; ; u vR; r vko'; d gSftl l sosl eLr izdkj ds vHkfyf[kr Kku dks i Hkkodkjh rjhds
l sl afBr] 0; ofLFkr vks l i f"kr djuseal {ke cu l dsA

f'k{k k 'kcn f'k{k /kkrq l s cuk gSftl dk vfkz gS & Kku i ltr djuk] tkuuk]
l e>ukA i kphu Hkkjr eaf'k{k dks ^vkReKku* vks ^vkRe izdk'ku* dk l k/ku ekuk x; k
gSA ; g , d vthou pyusokyh i f0; k gSA ; g i f0; k ml l e; l s i k j k gks tkrh
gStc ckyd dk tle gksk gSA l oafke ek ds l Ei dZl srRi 'pkr fir k o i fjokj ds
vll; ykxkads l Ei dZea ckyd l h[kusdk dk; Z i k j k dj nsk gSFkkMk cMk gks i j vi uh
vko'; drkva , oabPNkva dh i firZ grqi Mke rFkk l ekt ds l Ei dZea vkrk gSA vk; q
c<us i j i k-frd] l keftd] jktu frd vks vk/; kRed okrkoy.k ds l kfk l keatL;
LFkfi r djrs gq sfofHku izdkj dh f'k{k xg.k djrk gSA

ts, l -e~~st~~th ds vu~~d~~ kj & p0; ki d vFkz ea f'k{kk , d , d h i fØ; k gS tks
vkthou pyr h jgrh gSvkj i k; %thou ds i R; d vu~~tko~~ l sml ds HkM/kj ea of) gkrh
gSA f'k{kk ekuo dh l eLr u\$ fx d 'kfDr dk fopkj gStksekuo ds vi usokrkoj .k ds
l kFk l Ei dzeavkus i j l Hko gkrk gSbu 'kfDr; ka ds fodkl dh {kerk ekuo dh i z-fr
eafufgr gSA vkj f'k{kk }kj k mudksi LQqVr gkus dk vol j i klr gkrk gSft l l seutj;
dk cg~~e~~kh fodkl gkrk gSly~~s~~/ks us f'k{kk dks 'kjh fjd] ekuf l d rFk cks) d fodkl
dh i fØ; k ekuk gSA vjLrqusdgk gSfd LoLFk 'kjhj eaLoLFk efLr" d dk fuekz k djuk
gh f'k{kk gSAB

f'k{kk og i fØ; k gSft l ds }kj k eutj; eafufgr 'kfDr; ka dk fodkl gkrk gS; g
, d xfr'khy i fØ; k gSft l &ft l i d kj fdl h l ekt ; k jk"Vfgr i fjLFkfr; ka ea varj
vkrk gSBhd ml h i d kj f'k{kk ds mís; ka ea i fjor~~u~~ gks tkrk gSA ; g , d mís; i wkz
i fØ; k gSA tks o\$ fDrdrk dk i wkz fodkl djrh gSml svi usokrkoj .k l sl ek; kst u
djuseal gk; rk inku djrh gSA i R; d eutj; ds thou eadrD; vkj nkf; Roka ds fuokj
ds i fr i fjr djrh gSvkj 0; ogkj vkj fopkj rFk n"Vdks kh ea , d k i fjor~~u~~ djrh gS
tks l ekt] nsk vkj fo'o ds i fr fgrdj gksA

f'k{kk , d i h<h l snw j h i h<h rd gLrkrfjr Hkh gkrh jgrh gSbl h l s; g fl)
gkrk gSfd ; g fujlrj , oathou i ; Dr pyusokyh i fØ; k gSA bl ds }kj k i R; d eutj;
i wkzrk i krk gSA ; g Kku dks l ekt dsfgr eavf/kd mi ; kxh cukusdh dyk gSA ft l l s
l ekt dks , d vkn'kzLo: i fn; k tk l dsA ; g , d mís; i wkz , oaufrd xfrfof/k gS
tks i wkz , oal Qy fuokj dh vkj c<frh gSA f'k{kk Kku ds v/; ; u ea l g; kx djrh gS
ft l ds QyLo: i eutj; uohu&uohu fo" k; ka dh l j puk djrk gS; g l ekt dks Hkr l s
or~~z~~ku rFk or~~z~~ku l s Hkfo"; dh vkj ys tkrh gSf'k{kk dk l ædk l Ei wkz Kku t xr l s
gS; g fo" k; t xr dh j puk vkj fodkl ea l g; kx nrsgg suohure fo" k; ka ea l gk; d
gSA

1-9 Kku ,oa l keftd l æk %&

i Foh ij ekuo fodkl dk bfrgkl gh Kku dsfodkl dk bfrgkl gSA eutj; vkjlk l sgh bl ckr dsfy; s iz Ru'khy jgk gSfd og iz-fr dsjgL; eafNi h ckrkadh [kkst dja A og viuh enyHkur vko'; drkvka ds l kFk&l kFk vU; HkkSrd l k/kuka vkj viuh fofHku vko'; drkvka dh i firZ gsrqu; &u; s iz kl ka vkj [kkst ka ea yxk jgrk gS bl h iz kl dsQyLo: i eutj; dsKku eafujlRj vfhkof) gkrh pyh vk jgh gSvr% ; g dguk mfpr gh gSfd Kku dsfodkl dsfy, l keftd 'kfDr , d egRoi wkZHkfedk dk fuokj djrh gSvr%Kku vkj l ekt , d nll jsds i j d gSA Kku dk fodkl l ekt dsfcuk l lko ughagSA vkfn dkyhu l ekt l sgh ekuo eageskk , d l keftd nco ds l kFk dN u; k i kus dh ykyl k Hkh jgh gSA orZku ea tks Kku mi yC/k gSog l c l ekt d vko'; drkvka l keftd i lko , oa l keftd i f jorZ dsdkj .k gSA Kku dh mRi fUk dk fodkl dny jks/h] di Mlk vkj edku dh vko'; drkvka dks i jk djus dsfy; s ughavfi rql fo/kk; Dr rFkk vkjkenk; d thou fcrkusds l kFk&l kFk l keftd i kjLi fjd fO; kvka dh vko'; drkvka dks i jk djus dsfy; s Hkh gypk gSA

1- l ekt 'kCn dk iz ksx eutj; ka ds l enj l sgkrk gSA bl fy, eutj; dks l keftd i k.kh dgk x; k gSA l ekt ea jguk ml dh iz-fr gS viuh iz-fr dsdkj .k gh eutj; vius l kFk gh vU; eutj; ka ds l kFk vudfo | l æk LFkfi r djrk gS; s l æk eutj; dh fO; kvka dks vud idkj l sfu; i=r o e; kZnr djrs gSA nll jseutj; ka ds l kFk l æk LFkfi r dj yusds l kFk eutj; tks pkg sog ughadj l drk A og u rks i wkZ; k LOPNn gks l drk gSvkj u gh euekuh dj l drk gSA , d l æBu dk vak gkusdsdkj .k eutj; ka dks , d fuf'pr 0; oLFk dk vud j .k djuk gkrk gSA ; g , d fuf'pr e; kZk ea jguk i Mfk gSA nll jka ds l kFk l æk gkusdsdkj .k eutj; ka dks l kpuk i Mfk gSfd ml dsdkj l s0; ogkj vufpr gSvkj dks l s l epr gSA fdl idkj dk vkpj .k mi ; Dr gSnll js l sckrphr djrs l e; mlgsfdu ckrkadk /; ku j [kuk gSvkfn A eutj; ka ds thou ea , d nll jsds l kFk l ækka dk tks tky l k fcNk gypk gS ml h dks l ekt dgk tkrk gSA

jkv dsvud kj & beutj; ds l enjka dks l ekt ughadjk tk l drk vfi rql enj

ds vrxz 0; fDr; ka ds l ædkka dh 0; oLFkk dk uke l ekt gSAB

ešlkoj ds vuđ kj & peuđ; ka ea tks pyu gS tks dk; žkgh gS i kjLi fjd
l gk; rk dh tks i dfUk gš 'kkl u dh tks Hkkouk gS tks vuđ l eđ o foHkkx fo | eku gS
ekuo 0; ogkj ds l ædk ea tks Lora= rk, a, oae; kžk, agāmudh 0; oLFkk dksgh l ekt dgrs
gš bl fujUrj ifjofr ž gkrh gš tVY 0; oLFkk dks gh l ekt dgk tkrk gS ; g
l keftd l ædkka dk , d rkuk ckuk gS tks l nk cnyrk jgrk gSAB

euđ; vi uh Hkkšrd vko' ; drkvka dh i firZdsfy, iz-fr ds l k/kuksdk ft l <æ
dk iz kx djrk gS ml l sml dh l H; rk dk fuekZk gkrk gS ij euđ; dōy Hkkšrd
vko' ; drkvka dh i firZ djs gh l rđV ugha gks tkrk gS og vi us thou dks l j l
l kōn; ž; cukusdk Hkh ; Ru djrk gSA bl dsfy; sog l æhr l kfgR;] dyk l /keZrFkk
fpUru vkfn dk vkJ; yrk gS vkš buds }kjk vi us thou dks l d l—r cukusdk ; Ru
djrk gS thou dks l j l l tñj vkš dY; k.ke; cukusdsfy; sfd; sx; s iz Ruka }kjk gh
l l—fr dk l tu gkrk gSA euđ; us/keZ dk tksfodkl fd; k gSn' kž 'kkL= ds: i ea
tksfpru fd; k l kfgR;] l æhr l fp=dyk o vl; yfyrdykvka dks tks l tu fd; k vi us
0; fDrRo o l kefigd thou dks dY; k.ke; o l d kh cukusdsfy; sftu i Fkkvkā ij Ei jkvkā
l l Fkkvkāo 0; ogkj ka dks tksfodfl r fd; k mu l c dk l ekoš k ge l l—fr eadj l drs
gSA l H; rk dk l ædk euđ; dh Hkkšrd i fj l Fkfr; ka ds l kFk gSA vkfFkd mRi knu ds
fy; seuđ; ftu l k/kuka dk iz kx djrk gS vkš vi uh Hkkšrd vko' ; drkvka dh i firZ ds
fy; sftu l k/kuka dks tV/krk gS mudksge l H; rk ds vrxz j [krs gSA vk/kfud
l H; rk ; ka=d vkš vkš kšxd thou ij vkfJr gSA ij kuh l H; rk —"kd o i 'kāj kyd
thou ij vkfJr gSA l l—fr Hkkšrd u gkdj vH; karj gkrh gSA ml dk l ædk 'kjhj
dh vi škk eu l svf/kd gkrk gS A euđ; ds, d l keftd i k.kh gkus ds dkj .k ml dh
l l—fr dk fodkl Hkh l keftd o l kefigd : i l sgkrk gSA l l—fr cgr l seuđ; ka
ds l kefigd iz Ru dk i fj .kke gkrh gSA og iz Ru Hkh , d k gksuk pkfg; sft l s, d dsckn
, d vkusokyh l rfr; ka ea vuojr : i l sfd; k gksA

Kku dsfodkl dsQyLo: i l ekt eafujlurj ifjorzu dh if0; k xfr'khy jgrh gSA ifjorzu , d o/ku'khy l ekt dk egroi wlrRo gkrk gSA ifjorzu l sdbzHkh vNirk ughajgrk A eult; dh thou'ksh jgul gu] mRiknu ds l k/kukh l okvka ds dk; {ks=k f'k{kk] vuq dkku] l l—fr vkfn l Hkh {ks=ka ea ifjorzu n"V0; gSA

eult; usviuh Hkksrd l fo/kkvdsl kFk&l kFk Kku dsfodkl eafujlurj fodkl fd; k A l ekt ea gq segroi wlr ifjorzu ka dks , frgkfl d n"V l srhu dkyka eafokDr fd; k tk l drk gSA

1/4 1/2 i nZ vS] kSxd —f" k l ekt & vkfndky eaekuo txyka eajgrsgq iz—fr inuk oLrvka ij fuHkj Fkk A og dlnew Qy vS] vlu ds l kFk i 'kq/ka dsek dksHkh Hkksu dsfy, iz kx djrk Fkk A /khj&/khj sml uscf) dk iz kx dj vSt kj ka dk fuekz k fd; k A xQkvka ea o{ka ds Aj jgus ds LFkku ij vc Nks/&Nks/ sedkuka dk fuekz k i kjEHk fd; k A f'kdkjh ds LFkku ij og vc —"kd vS] i 'kq kyu cu x; k A viuk l eng cukdj , d LFkku ij jguk i kjEHk dj fn; k A bl izdkj l H; rk vS] l l—fr dsekz ij rsth l sc<fsgq s, d l ekt dk : i vLrRo eavkusyxk A ml l e; dh l keftd l jpuke l k/kj.k vS] l jy Fkh A eult; dk thou [krh ij vk/kkfjr Fkk vS] og Hkksu dsfy; sdbz izdkj dh Ql yamxkrk Fkk A ml dk l ka—frd vS] l keftd thou ml h okrkoy.k ij vk/kkfjr Fkk ftl ea og fuokl djrk Fkk A

1/2 1/2 vS] kSxd l ekt & 18 oha 'krknh ea vS] kSxd Økflur dk l w=ikr gksus ij ; ka=d 'kDr dk fodkl gq/ka vS] kSxd l ekt mtKz ds l xBu ij dluar gks x; k D; ka=d vS] kSxd bdkbz, ka vFkkzr dgk& dkj [kkuka ds fy; s mtKz gh eq; l d k/ku gS ftl ds vk/kkj ij ogn Lrj ij oLrvka vS] l okvka dks mRiknu fd; k tk l drk gSA bl dsQyLo: i u dny vkfFkd mRiknu eavl k/kj.k : i eaof) gpzvfirql ekt ds l keftd thou ea Hkh egroi wlr ifjorzu vkjHk gks x; s A l ekt dh vf/kdkr% Je 'kDr mRiknu f0; k&dyki ka vS] mRi kfnr oLrvka dsforj.k ea l f0; gks xbz A bl izdkj vS] kSxdj.k dsQyLo: i l ekt ea ifjorzu vk; k A

1/2 vls kskkj vk/kud I ekt & orëku eal puk i ksj kfxdh I pkj , oa; krk; kr
 I k/kuka ea vl k/kkj .k mlufv ds QyLo: i /khj & /khjs vls kskkj I ekt dk vfoßko gks
 jgk gSA i frfnu u; smRi knu vls u; srdudh nf"Vxr I pkj Økär us i j'sfo'o dks , d
 Nks/sxk ds: i ea i jofr' dj fn; k gSA vc ; g I ekt dEI; Wj bySDV/fuDI] I puk
 , oa tho i ksj kfxdh ds }kjk gh fun' kr gks tk jgk gSA

vr% I fki eadgk tk I drk gsfv I ekt eækuokædk I æfBr vr%fØ; k djus
 okyk I em gsvls fujlurj iæfr , oafodkl 'khy gSA

1-10 I ekt ea Kku dh mi ; kfxrk &

fo}kukæds vuq kj Kku og gStks I ekt dks Kkr gsvFkk' I ekt ds }kjk tkuk
 x; k gSA Kku txr dh I R; txr 1/4 whole body of truth 1/2 rF;] I puk] fl) kur I h[kuk
 ; k vl; fdl h mîs; ds fy; s mikft' vkfn fo" k; I kexh gSA Kku ds fodkl ds
 , frgkfl d foopu I s irk pyr k gsfv Kku dh I oëku; fuf' pr i fj Hk"kk ugha gSA
 oLr%; g t: jh gsfv Kku D; k gSbl mîs; gsrq d i 1/4 kemp 1/2 us , d ueuk fn; k A
 bu ueuka eansckrka dk fopkj fd; k tkrk gSA I oæ Eke 0; fDr D; k fo'okl djrk gS
 rFk vi usfo'okl dksfdl rjg dgrk gS 1/4 k I ekt I kefigd : i I sD; k fo'okl djrk
 gsvls fdl iækj foopuk djrk gS f}rh; dFku dks Kku eku fy; k tk; s; g bl ckr
 ij fuHkj djrk gsfv dFku fdruk I R; gSA dFku dh I R; rk dk i x nvl jka ds fo'okl
 vls dFku ij fuHkj gSA

Kku ds I æk ea ly/vs 1/4 plato 1/2 us dgk gsfv Kku fpj I R; gsrk gSA
 I R; kbeq krk I ækh ml dsbl vfuok; Zy{k.k I sgh ; g Hkh I lko gks i krk gsfv ml ds
 fy; s I fØ; cf) bflæ; kutlkoeny vkHkl vls ml dh pruk ds I anHZeakku vls vKku
 I R; vls vkHkl dschp Hkn dj I drh gSA ty ea Mch ydMh I h/kh gS; | fi ; g Vsh
 fn[kkbZ nrh gSA ; g Kku døy I R; kbeq kh cks) d fØ; k 1/4 u.kz 1/2 }kjk gh I lko gSA
 ; gla; g /; ku j [kuk vko' ; d glæk fd , d h cks) d fØ; k dk vfuok; ZI anHZe bflunz kutlko

gSvks bl fy, ml us l R; dscnysvl R; dh mi yfC/k l nS l Hko gSA

vjLrqAristotle½vi uh Kku&fo"K; d ppkzbflnz, kutlko l svkjHk djrk gSfdUrq bl l s vks ml s ; g Li"V djus ea Hkh nj ugha yxrh fd bflnz, ka ij vk/kkfjr Kku xqkkRed Hkn dh n"V l s dbZLrjka okyk gks l drk gSA ; g xqkkRed Hkn l k/kkj .kr% ekuo ifji{; ij vk/kkfjr gkrk gStkseyr% mRi knD 0; ogkfjd ; k l S kãrd gkrk gA i p% mudk er gSfd ; | fi Kku dh mRi fUk bflnz, kutlko eagSrFkkfi ml si wkrk dÿy cf) ds l gkjs feyrh gSA cks) d l a R; ; u rFkk rkfdZl i fØ; k dsgh l gkjs Kku dks 0; ofLFkr oLrfu"Brk feyrh gSA

Kku i R; d mÍs ; ka dh i firZ dk l k/ku vks Lo; a ea , d l k/; gSA bl dk l kekftd] l kl—frd] vkfFkd rFkk i ks] kfxdh; 'kDr; kãds l kFk i kjLi fjd i Hko l ekt ea vud ifjorZka dks tle ns jgk gSA Kku vks l puk ds æpxfr l s fodkl ds QyLo: i l puk i ks] kfxdh dh ixfr us l ekt ds i R; d {ks= ea ifjorZu yk fn; k gSA ; g , d , d k mi dj .k gSft l dh l gk; rk l sde l sde Kku vks l puk dk LFkkukarj .kj fjd kfMk] l klrhdj .k vks i l kj fd; k tk l drk gSA vr% l puk i ks] kfxdh l ekt ds fofHku {ks=ka dks vko' ; d : i l si Hkkfor dj jgh gSA

l eLr dsegROI wZ i Hkkfor ?kVd vFkok {ks= fuEufyf[kr gS %&

¼½ f' k{kk]

½½ 'kkk , oafodkl]

¾½ tul pkj]

¼½ 'kkl u , oam l dsfØ; kdyki]

½½ 0; ki kj , oam | ks]

¾½ nsud thou 'kSyh A

1-11 l puk vks ixfr %&

tc geafdl h rF; dk cksk gkrk gSrFkk ge ml ij fo'okl djrsgãrc og Kku dk : i ysyrk gSA Kku dk fodkl l ekt dsfodkl l s tMk gSA l ekt dsfodkl

dk bfrgkl gh 'kk&k ds fodkl dk bfrgkl gSA ekuo xfrfof/k; ka ds l Hkh {ks=ka ea
 'kk&k dk vFkZKku dh fujUrj [kkst u; sfopkjka dk fodkl vks mudks l e>usdk iz Ru
 rFkk vkfLrRo ea vk pps Kku ds fofHklu vk; keka dk foLrkj djuk gSA dksbZ Hkh 'kk&k
 dk; Zrc rd l Qyrk iwd ughafd; k tk l drk tc rd bl dsfy; svko'; drkuq kj
 l puk mi yC/k u gSA l puk ds vHko eafdl h Hkh i zkj dh mlufir l Hko ughagSI gh
 l e; ij l gh l puk dk mi yC/k gsk fdl h Hkh dk; Zdh l cl si gyh vko'; drk gSA
 or&ku ; q ea vU; 0; ol k; mRi knka ds l ekuo gh Kku gh , d mRi kn gSft l
 i zkj 0; ki kj ds {ks= ea mRi kn d fofHklu oLr vka dks fofHklu forj dka dh l gk; rk l s
 mi Hk&Drkvka rd igppkrsg&bl h i zkj Kku dk Hkh vks k&hdj .k gsk p&dk gSA vc Kku
 ds l kFk&l kFk Kku ds forj .k ds {ks= ea dk; Z djus okys fofHklu i fruf/k o l kFk, a
 dk; jr g&A Kku ds mi Hk&Drkvka ds v&x& 0; fDr fo'k&k Nks/s ; k cMs l enj vkfn
 l f&efyr g&A Kku ds fodkl dksv/; ; u dh n"V l s; qka ds vk/kkj ij foHktu fd; k
 x; k gSA

iLrj ; q Stone Age

vkfndky ds i kjEHk ea ekuo ik—frd : i l smRi lu gks okys dUn] enj] Qy
 vks vlu ds l kFk i 'kq/ka ds eka 1/4' kdkj }kj k/2 dks Hkh vi usHk&st u dsfy; si z k& djrk
 FkkA vFk& iz—fr }kj k i nUk oLr vka ij gh fuHkj Fkk A vi uh cf) dk iz k& dj ekuo
 i kjEHk ea gh , s vks&kj ka dk fuel&k djus yxk ftudh l gk; rk l sog l q&erk iwd
 f'kdkj dj l drk Fkk A os vks&kj i RFkj ds gks s Fks A /khj&/khj sm l us i RFkj ds l kFk
 ydM& vks gMMh ds vks&kj Hkh cukus 'kq dj fn; sA Hkou fuel&k dyk ea vufHkK gks
 ds dkj .k ; k rksog xQkvka ea jgrk Fkk] ; k o{kka ds uhpsA vkfndky ds 'kq ea ml dk
 vkx dk Hkh Kku ugha Fkk A og eka vkfn dks dPps : i ea gh [kk; k djrk Fkk A ij
 /khj&/khj sm l dks vkx dk Kku g&k A pded i RFkj jxM&j og vkx tykus yxk vks
 ml dk iz k& Hk&st u vkfn dks i dkus dsfy, djus yxk A vfxu dk Kku iz—fr dh
 'k fDr; ka ij ekuo dh igyh fot; Fkh A

/khj&/khj svkSt kj vf/kd ifj"—r o mlur gksx; sA døy xQkvkaea; k o{kka ds
uhpsjgusdsLFkku ij ml usNks/&Nks/srEcvka dk fuekZ k 'kq fd; k tks i k; %i 'kq/kadh
[kkykaeacuk; s tkr s Fks A i 'kq/kadspeZ dks ml us 'kjhj <dus ds fy, Hkh iz Ør djuk
i kjEHk fd; k A

/kkrq; q ½Metal Age½&

/kkrqds; q eaeuq; u døy LFkk; h cflR; kaefuokl djrsFk vfi r qmUgkuscMls
uxjka dk fuekZ k Hkh i kjEHk dj fn; k A gMh i kj ekgut knMls vls cfcyku vkfn dsvo' kSk
muds i gkus uxjka ds i fjk; d gSA osfy [kus dh dyk dks Hkh fodfl r dj pps Fks A
; gla i j bruk gh fy [kuk mfr gksk fd i Lrj ; q dh ryuk eaeuq; I H; o I q h—
r gksx; k Fkk A og uxjkaefuokl djrk Fkk A vud fo | f'kyi ka dk vuq j.k djrk
Fkk A /kkfeZl vuqBkuka o i ntk i kB }jk fo'o dks vn'; 'kfr; ka dks I r qV djrk
Fkk A vl; cflR; ka o i nskka dh fot; dj vi us jkT; ds {ks= dk foLrkj djrk Fkk A
nj&nj rd 0; ki kj dsfy, tkrk Fkk A I kfgR;] fpUru] I æhr o dyk vkfn }jk vi us
thou dks I q kh cukusdk iz Ru djrk Fkk A ckn ea tc euq; usy kgs ds mi ; ksx dks Hkh
tku fy; k rks ml ds vkfFkZl thou ea vls Hkh vf/kd mlufr gPZA

bl h ; q eaeuq; usiz—fr I svi uh vko'; drkvka dh i firZ dsfy, tks d n I h [kk
ml Kku ds fodkl eafujLrj of) djrk jgk vls vkusokys I ekt dsfy, fyfic)
: i ea l dfyr djrk jgk gSA

; k=d vls oSkfud ; q ½Machine Age½&

; |fi euq; /kkrqdk iz ksx tku x; k Fkk rFkk og ykgs ds vkSt kj cukusyx x; k Fkk
ij vkfFkZl mRi knu i fØ; k eamI dsdkj.k dkbZfo' kSk i fjorZ ughavk; k Fkk A bl n'kk
ea vLrj rc vk; k Fkk tcf d 18 oha 'krk n h ea vls ksxd Økflur dk I w i kr gqk A
; kfl=d 'kfr ds mi ; ksx I stc euq; usdy dkj [kkuka dks LFkfi r djuk 'kq fd; k
rc u døy vkfFkZl mRi knu eavl k/kj.k : i ea of) gPZ vfi r q I ekt ds I kekft d
thou ea Hkh egROI w k i fjorZ i kjEHk gksx; sA bl Økflur I sl ekt usi gkus fo'okl ka dks
frykat fy ndj vi uh cf) I su; &u; s oSkfud vfo"dkj djus i kjEHk dj fn; s rks

og I H; rk ds exZ ij cMh rsth ds l kfk vxl j gkus yxh A l ekt us ; krk; kr vks
 l pkj dsu; s l k/kuka dk vfo"dkj dj njh o l e; ij Hkh fot; iklr dh A fi Nyh
 nk&<kbZ 'krkfcn; ka ea eut; us l H; rk ds {ks= ea tks mluf r dh gSog oLr r% vl k/kkj .k
 gSA og mluf r cf) fopkj] oSkfud vfo"dkj vks] vks] kfxd Økfu r dk ifj .kke gSA
 i gkus ; qka ea eut; ka ¼ ekt½ ds i kjLifjd l ECU/k , d h i Fkkvk] ijEi jkva o
 : f<+ ka ij vk/kfjr FksA ftudk fodkl cgr /khj&/khjsgp/k Fkk A ml l e; u dpy
 eut; ka ds vkpj .k o pyu gh] vfi r qdkuu Hkh ik; % i Fkk o ijEi jk ij gh vkfJr FksA
 tehkj vks l od] l kgvdkj vks dthkj] jtkk vks iztk] i gksgr vks turk l cds
 i kjLifjd l ECU/kka dk vk/kkj i gkus l e; ea pys vk; sjhfr fjokt l s l æf/kr fo"k;
 l kexh ij Kku inku fd; kj ftudk vkt Hkh v/; ; u o foopu fd; k tkrk gS yfdu
 ml l e; dk l ekt fdl h u fdl h dkj .ko'k l Ei wkZ Kku l sofpr jgrk Fkk A bl ; q
 ea eut; ka us l ECU/kka dk fuekZk foodi wkZ djuk i kjEHk fd; kpkgs og fdl h Hkh {ks= l s
 l æf/kr fo"k; gks rFkk l ekt dks l Ei wkZ Kku l s voxr djkus dh dks'k'k dh gSA

1-12 I kjkak &

i R; d fo"k; Kku txr dk v/; ; u fhkUu&fhkUu n"Vdksk vks mfs ; kadh i kflr
 dsfy; sdj rsgSA Kku ehka k bl dk v/; ; u l koBkE l Uk dh tkudkj h dsfy; sdjrk
 gSA rdZ 'kkL= i gk.k vks food dh n"V ds fy; s djrk gSA tcd eukfoKku
 Kku fUnz ka efLr"d rFkk Lefr ds l æak ea djrk gSA /keZ kkL= vk/; kfRedrk dh n"V
 l } l ekt 'kkL= l epk; dspge [kh fodkl dh n"V l svks foKku ik—frd rRoka dh
 l R; rk vks mudks0; ogkfjd cukus dh n"V l sfujh{k.k] ij h{k.k ds vk/kkj ij Kku dk
 v/; ; u djrk gSA i qrdky; foKku gh , d l ok fo"k; gS tks Kku@fo"k; txr dh
 l jpkul fo"k; txr ds fodkl vks i qrdky; rduhd , oaoxhdj .k i) fr; kavkfn ds
 l æak ea i wZ Kku iklr djus dh n"V l si qrdky; rduhd , oaoxhdj .k i) fr; kavkfn
 ds l æak ea i wZ Kku iklr djus dh n"V l s Kku@fo"k; txr dk v/; ; u djrk gSA

1-13- Lo&tkp vH; kl &

- 1- Kku dk vFkZ , oabl dh iz-fr ds l ædk ea0; k[; k dhft ; sA
- 2- vf/kxe dh ifØ; k , oafI) kUr dks l e>kb; sA
- 3- l puk foKku ds {ks= vkj 'kksk dk; Z ds chp eaD; k l ekurk, agj l e>kb; sA
- 4- l puk vkj izfr vki l eafdl izdkj l sl æf/kr gñ l e>kb; sA

Module 5: Information (INFORMATION)

- 1-0 Introduction
- 1-1 Objectives
- 1-2 Knowledge: Definition & Nature
- 1-3 Knowledge Generation
- 1-4 A comparative study of Data, Information & Knowledge
- 1-5 Learning process & Theories
 - 1-5-1 Learning process, its types & methods
 - 1-5-2 Learning process in library
 - 1-5-3 Learning process in information science
- 1-6 The Parallel between the Domain of Information Science & what Research have to do
- 1-7 Sociology of Knowledge and its Epistemology
- 1-8 Social Epistemology & the Library
- 1-9 Knowledge and Social survival
- 1-10 Use of knowledge in Society
- 1-11 Information and Progress
- 1-12 Let us sum up
- 1-13 Self Check exercise

bdkbz 6 % I þuk , oal ekt (Information and Society)

- 2-0 fo"k; i dsk
- 2-1 mif;
- 2-2 I þuk dh ifjHkk"kk
- 2-2-1 I þuk dh i Ñfr
- 2-2-2 I þuk ds idkj
- 2-3 I þuk dk I keftd i Hkko
- 2-3-1 vksj kfxd I ekt
- 2-4 I þuk vFkz kkl=
- 2-5 I þuk dk I ve vFkz kkl=
- 2-5-1 I þuk , oafoid .ku
- 2-6 I þuk vFkz; oLFkk
- 2-7 I þuk ink; d I LFkk, a
- 2-8 I þuk dnta , oal skvka dk vFkz kkl=
- 2-9 MS/kcd , oal MS/kcd vfhkxe
- 2-10 I þuk vojkskd
- 2-11 I kjka k
- 2-12 Lo&tkp vH; kl

2-0 fo"k; i dsk (Introduction)

ge I Hkh I þuk 'kcn I sijfpr gð D; kfid bl dh vko' ; drk I Hkh dks i Mrh gð vk/kfud I ekt I þuk i zku I ekt gð, oa bl I ekt dh vkfFkd] I keftd] I ka Ñfrd o vksj kfxd i xfr dk eq; vkekkj I þuk gð orðku I e; eækuo thou ds fofo/k fð; k dyki kaal þuk dsð; ki d i Hkko dksLi"V : i I snqkk tk I drk gsbueaf' k{kk} vud' akku , oafodkl] nij I þkj] izkkl u] 0; ki kj vksj m | kx rFkk ekuoh; i fjošk i æqk gð fdl h jk"V^a dh vkfFkd] I keftd] vksj kfxd] 'k{kf.kd] jktufrd , oal ka Ñfrd i xfr ea I þuk dh egroi wZ Hkfrdek gð bl idkj I þuk dks, d vkfFkd I d k/ku ds: i eaLohdkj djrs gq I þuk vFkz kkl= ds vlr xzr mRi knu] of) vksj fodkl dk fo'yšk.k fd; k tkrk gStksfd I þuk I LFkkuka I sl æð/kr gð , oamudsfoðkh; izlu/ku I sijfpr djkrsgð bu I Hkh i {kka dk o.ku bl bdkbz.eafd; k x; k gð

2-1 mĩś ; (Objectives)

bl bdkbzdk v/ ; ; u djusdsi 'pkr vki fuEufyf[kr ckrka dks l e> l d&&

- 1- I p̄uk dh ifjHkk"kk] iÑfr , oai zdkj
- 2- I p̄uk l ekt , oai Hkko
- 3- vks] kfxd l ekt
- 4- I p̄uk vFkz kkl= dh iÑfr] {ks= rFkk foLrkj
- 5- I p̄uk dk l ũe vFkz kkl= , oacktkj
- 6- I p̄uk vFkz; oLFkk , oal œf/kr dkjd
- 7- I p̄uk ink; d l ũFkk, a
- 8- I p̄uk dmkadh l okvka dk vFkz kkl=
- 9- Mŝ/kcd rFkk Mŝ/kcd vfHkxe
- 10- I p̄uk vfHkxe dks iHkkfor djusokysdkjd

2-2 I p̄uk dh ifjHkk"kk (Definition of Information)

vk̄dM̄kadsvk/kkj ij fufeŕ vFkz wkZLo: i I p̄uk gStksfd vk̄dM̄kads l d k/ku vks] fo'ySk.k djusdsi 'pkr i klr dh tkrh gŝ oLrŕ% I p̄uk , d l kekf t d i fØ; k gS, oal p̄uk vko'; drk ds: i eabl sfofHkUu izdkj l si fjHkkf"kr fd; k tk l drk gŝ

Bl p̄uk dk rkrri ; Zfdl h Hkh izdkj l sl æghr v/ ; ; u vFkok f'k{kk }kjk xg.k dh xbZml cks) d vo/kkj.kk l sgStksfyf[kr vFkok eks]kd : i l srF; k̄ vk̄dM̄k vFkok Kku ij vk/kfjr gk̄p

–Webster's Dictionary of English Language

Bl p̄uk 'kCn dk rkrri ; Zml Kku l sgStksfd l h fo' ksk rF; k̄ ?kVukvka vks] fo"k; ka l sl EcfU/kr gk̄vks] ml dk l Ei k.k fd; k tk l d̄p

–Concise Oxford English Dictionary

Bfdl h fo"k; l sl EcfU/kr rF; ka dks l p̄uk dgrsḡp

–J. Baker

Bl p̄uk dk mi ; ksx ft l : i ea tho oKkfud vks] i ũrdky; k/ ; {k djrs ḡaml srF; dgrsḡp ; g , d m̄kstuk ḡs ft l sge viuh KkuŝUnz, ka }kjk i klr djrs ḡp ; g ek= , d izdkj dk rF; gks l drk gSvFkok rF; kadk l Ei wkZ l eŵ gks l drk ḡs ; | fi ; g , d bdkbz gksrk ḡp

–J.H. Shera

Bl þuk 0; ki d : i ea l Ei k.k ; kx; rF; ka dk l ey gð

–Harod's Librarian's Glossery & Reference Book

okjfl x (Wersing) o uofyax (Neveling) }kj k fofhku vfhkxekadsvk/kkj ij l þuk dksN%vfhkxe fu: fi r fd, x, g&

(i) **I jþukred vfhkxe&** bl vfhkxe ea l þuk fo'o dh l jþuk dsvlrxr gkrh gð vFkok Hkkrd mīś ; ka ds e/; LFkkbz l æk gkrsgðftluga vutko fd; k tk l drk gsvkš ughaHkA

(ii) **Kku vfhkxe&** bl vfhkxe dsvlrxr Kku dk vfhky[ku fd; k tkrk gš tksfd fo'o dh l jþuk dsckk dsvk/kkj ij fufeð fd; k tkrk gð bl vfhkxe dksLohdkj ughafd; k x; k D; kīd bl eaKku vkš l þuk in dks i ; kž okph ekuk x; k gð

(iii) **I nš k vfhkxe&** ; g vfhkxe l nš k l þkj r djus dsfplgka l sl æð/kr gð bl dsvlrxr l þuk dksfd l h Hkkrd vk/kkj ij fplgka vkfn ds: i ea vfhky[kr djrsgðftl dk l þkj fd; k tk l drk gð ; g vfhkxe døy l þkj dsxf.krh; l þkj fl) kUr eami ; kx eavk l drk gð

(iv) **vfhki k; vfhkxe&** bl vfhkxe dsvlrxr , d l nš k dh vFkī wkz fo" k; oLrq dks l þkj ds: i eaLohdkj fd; k tkrk gð

(v) **i Hko vfhkxe&** bl vfhkxe dsvuð kj l þuk , d i fØ; k gš tksfd døy , d fof' k"V i Hkko ds: i eamRi lUu gkrh gð

(vi) **i fØ; k vfhkxe&** bl vfhkxe dsvuð kj tc dkbz l eL; k rFk egROI wkz vkāMsekuo efLr" d ea l kFk&l kFk vkrs gð rks i fØ; k Lo: i l þuk mRi lUu gkrh gð

2-2-1 l þuk dh i Ñfr (Nature of Information)

l þuk l Ei wkz Kku i fj {k= ea, d vko' ; d vlrfužgr rRo ds: i eafofhku fo" k; kaefn [kkbz nrh gð Mš/k] l þuk] Kku vkš i Kk , d gh i dzkj dsrRo gð tksfd , d nū jsdks i kj Li fj d : i l sl e) djuseal gk; d gkrsgð buds l ffeŷyr Lo: i l sgh i Kk egROI wkz fl) gks l drh gð budse/; dkbz Li "V l hek js[kk ughagkrh ftl dsvk/kkj ij blga, dy : i eaLi "V fd; k tk l dA bl i dzkj dsvud egROI wkz fo" k; gðftudsvlrxr l þuk fufgr jgrh gsvkš fo" k; ds i æ[k Hkx l sl Ec) gkrh gð fuEufyf[kr fo" k; ka ea l þuk dh i Ñfr dks Li "V : i l sl e> k tk l drk gð

- dEI; Wj i kš kšxdh dsvlrxr l þuk i fØ; kdj .kj l ægj .k , oai q i kž l r]
- byfðVðy batifu; fjax dsvrxr /ofu ek/; eka ij l ærka dk i dzkj .kj

- Hkkórd foKku dsvlrxr I þuk dks inKfKz vKj Átkz dsl ed{k ekuk tkrk gð
- tho foKku dsvlrxr thfor ikf.k; ka ea I þuk dk i fØ; kdj.k]
- I ekt foKku dsvlrxr I þuk dks, d I d k/ku vKj vkfFKd I E inK ekuk x; k gð
- xfkky; , oal þuk foKku dsvlrxr I þuk iz kky; ka, oal skvka ea I þuk i ksj kfxdh dsvuqz kx gra

2-2-2 I þuk ds izkj (Types of Information)

Li "V gSfd I þuk dh vko"; drk , oami ; kfxrk dsvk/kkj ij oxhÑr fd; k tk I drk gð bl h vk/kkj ij ts, p- 'kj k us I þuk dks fuEufyf[kr N% izkj ka ea Jskhc) fd; k gð

- (i) **iR; ; kRed I þuk&** bl izkj dh I þuk dsvlrxr fdl h I eL; k dsvLFkj {ks=ka I smRi lu gkasokysfopkj] fl) kr] ij dYi uk, a vkfn vkrh gð
- (ii) **vulko vk/kfjr I þuk&** bl dsvlrxr iz kx'kkyk ea iz kx dsvk/kkj ij mRi kfnr I kfgfR; d [kkst vFkok 'kkðk Lo; a dsvuþkoka }kj k ; k fdl h vU; I ksrka I sl E iðk.k }kj k i klr vkadMð-vkrsgð
- (iii) **dk; ÷of/kd I þuk&** bl izkj dh I þuk dsvlrxr bl i fØ; k fof/k dks I fEefyr fd; k tkrk gSftI ds }kj k vuð ðkkudrkz dks vKj vf/kd i Hkkoh rjhdsI sdk; Zdjus; kx; cuk; k tk I dA bl izkj dh I þuk ds vlrxr fujh{k.k dsi 'pkr vkadMð, df=r fd, tkrsgð mudk ipyu fd; k tkrk gSvKj ij h{k.k fd; k tkrk gð ; g i wkz-%fof/kor dk; ZgSrFkk I E i wkz I þuk bl izkj dh I þuk dk fo'kðk egRo gkrk gð i fØ; k fofek I þuk dks oðKkfud I þuk Hkh dgrsgð
- (iv) **ij d I þuk&** eutj; I nð I sfopkj 'khy vKj ij .kk'khy jgk gð I kelt; r%bl dsnkij d rRo gkrsgð , d og Lo; avKj nð jk rRo okrkoy .ka bl izkj dh I þuk iR; {k I þkj }kj k ið kfjr dh tk I drh gð ; g vkdfLed i Ñfr dh gkrh gð
- (v) **uhfr I æðh I þuk&** uhfr fu/kkj .k vFkok fu.kz fu/kkj .k i fØ; k I sl æð/kr I þuk bl izkj dh I þuk ds vlrxr vkrh gð I kefigd xfrfof/k; ka dh i fj Hkk"kk, ð m f s ;] mUkj nkf; Ro dk fu/kkj .k] dk; kðk fodðhðj .k] vf/kdkj ka dks I ðgrkc) djuk vkfn dks bl ea I fEefyr fd; k tk I drk gð
- (vi) **fn'kkl pd I þuk&** I g; kx vKj I ello; dsvHkko ea dkbZ Hkh I kefigd xfrfof/k i Hkkoh : i I svxð j ugha gksl drhA mi ; þr fn'kk funðk }kj k gh I eþr I g; kx i klr fd; k tk I drk gð I kefigd fØ; k dyki ka vKj xfrfof/k; ka dsl þkyu gsrqbl izkj dh I þuk, a egroi wkz gkrh gð

2-3 I þuk dk I keftd i Hkko (Social Impact of Information)

euþ; , d I keftd i k.kh gð vi uh foHkUu vko'; drkvadh i firZgrqog u, &u, iz kl kavks [kkstkaeyxk jgrk gSftI ds
ifj.kkeLo: i ml dsKku eafujUrj vfHkof) gkrh jgrh gð I þuk ds0; ki d i Hkko usgh ml dh thou'ksh jgu&l gu ds
ifjosk] f'k{kk} I ðÑfr vkfn I Hkh {ks=kaea0; ki d ifjorZu fd, gð ekuo I H; rk dsfodkl dsI kFk&l kK 0; fDrxr , oal a þr
: i I sl æghr Kku , oal þuk fujUrj I æfyr gkrk jgrk gð bl vof/k eabl eal ákkku vks i jh{k.k kh gkrk jgrk gSftI I s
bl dk ifj"Ñr Lo: i i q%l ekt dsfy, mi ; ksh fl) gkrk jgrk gð bl fy, I þuk dksI keftd I E ink Hkh dgk tkrk
gð

fofy; e ts ekfVZu dsvuð kj& I þuk mRi kn vks i f0; k nksukagð ; g vuð míð; kadh i firZdk I k/ku vks Lo; aea , d
I k/; Hkh gð folrr : i I sbl dk i Hkko fuEufyf[kr {ks=kaeaLi "V : i I sn[kk tk I drk g&

- f'k{kk
- 'kkðk , oafodkl
- tu I þkj
- iz kkl u
- 0; ki kj , oam | kx
- ekuo fnup; kZ
- i ks] kfxdh
- dk; Z I ðÑfr

uohu I þukvkausykskædñf"Vdksk eaHkh 0; ki d ifjorZu dj fn; k gð I gh Kku vks I gh I e; ij feyh tkudkjh usmuds
vkRefo'okl dks<k; k gSrFkk I dkj kRed I kp dsifr osvxd j gksyxsgð bl dsifj.kkeLo: i , dtv gkdj dk; Zdjus
dh i d'Ük c<k gð ftI I smUgayEcsvks mckÁ dk; kæl seþDr feyh gð oLr% ; g uohu dk; Z'ksh o ifjofrZr n"Vdksk
dk gh ifj.kke gð

2-3-1 vks] kfxd I ekt (Industrial Society)

i ks] kfxd Økár I keftd i xfr eavi uk egRoi wkZ; kxnku djrsqg mRi kn d 'kDr; kadsuohu vk/kkj i nku djrh gsvks
I kFk gh bu 'kDr; kads ifj"Ñr vks] fodfl r djrh gð i ks] kfxdh eagksjgs ifjorZu gekjh I keftd I þuk dksHkh cnysr
gð thou; ki u dsfy, f'kdj djusvks [ks=kaea dUn&emy , df=r djusl syðj i 'kq ky u o mRi knu dh dk; Z ksy; kaea
ifjorZu i ks] kfxdh dsfodkl I sfujUrj i Hkkfor gkrk jgk gð mRi kn d 'kDr; kadsfodkl ea; g emy/xkeh vks] xqkkRed
ifjorZu gh I keftd ifjorZu dsvk/kku cusftI ds ifj.kkeLo: i I ekt usfodkl dsvuð I ki ku i kj fd, A

bl izdkj vksj kfxdhdj.k dsdkj.k l ekt ea, d egRoiwkz ifjorZu vk; k tksfd Åtkzdseq; l d k/ku ij vk/kkfjr Fkka bl l sl ekt dh Je'kfDr mRi knu l ædkh dk; kseal fØ; gksxbzrFkk vksj kfxd l ekt dk fuekz.k gypKA vkfFkZd mRi knu dsfl) kUr usl ekt dh thou'kSyh , oa thoueW; ka dks iwkt-% i Hkkfor fd; k vksj orZeku fo'o fodkl dh i fØ; k l s xqtj jgk gA

2-4 I pūk vFkZ; oLFk (Information Economics)

I pūk vFkZ kL= dk v/; ; u l (e Lrjka ij mRi knu cktkj] chek] l g {kk cktkj vksj vU; foi .ku ds {ks=ka dsvlrxZ Ørk vksj foØrk dse/; I pūk dh vl kelTl; rk vksj vU; I pūk l Ecl/kh l eL; kvkadsfujkdj.k gsrqfd; k tkrk gA vi ; kZr I pūk vkfFkZd fØ; kdyki vksj fofHkUu izdkj dh l eL; kvkadsfujkdj.k eal eL; k, j mRi lUu dj l drh gSvr%mi ; Ør rFkk v | ru l pūk dh vko' ; drk i Mfh gA

I pūk vFkZ; oLFk I pūk vFkZ kL= dk , d vU; i {k gsfTl dsvlrxZ vo; okads: i eal pūk Je'kfDr] I pūk l kexh , oa l Øk, j I pūk e'khujh] I pūk m | ks vksj foi .ku rFkk I pūk l j pūk vkrs gA I pūk vFkZ kL= ds fofHkUu vo; okadk i Hkko jk"Vh; vFkZ; oLFk ij i f j y f {kr gkrk gA

I pūk dk eW; cktkj dh fLFkr dsvk/kkj ij fu/kkZjr fd; k tkrk gA I pūk mRi knkavksj I Økvkad h xqkoUkk foi .ku dh fLFkrk dksdk; e j [kuseal {ke jgrh gA xqkoUkk dsvk/kkj ij gh l pūk dk vkfFkZd egRo c<<rk gA fd l h j k"V" dh HkkSr d of) vksj l ef) gsrq I pūk dks, d egRoiwkz vksj i æ{k dkjd rRo dh eku; rk inku dh xbzgStksfd vlrxZVh; Lrj ij Hkh egRoiwkz gA

vFkZ kL= l d k/ku l sl æd/kr gsrFkk I pūk Lo; a, d l d k/ku gA tc ge l pūk vFkZ kL= dk v/; ; u djrs gArksge l pūk ds l Ecl/k ea vFkZ kL= dk fo'ySk.k ml dh dk; Zof/k vksj mu fl) karka vksj iz kl ka dk v/; ; u djrs gA tks fofHkUu vFkZ kL=; ka }kjk fu/kkZjr fd, x, gA bl dsfoijhr tc l pūk dsvFkZ kL= dk v/; ; u djrs gArc ge mu vkfFkZd i {kka dk i jh{k.k djrs gA tks xFkky; kavksj I pūk dØnkavksj I Økvkads i zaku eal d k/kukads v f/kdre mi ; ksx eal g; ksx mi yCek djkrsgA

vFkZ kL= dk ekuo vksj l ekt l sfudV l ædk gA vFkZ kL= igysjktuhfrd vkfFkZd ds: i eafodfl r gypk ftl dk l Ecl/k 'kk l u dh vkfFkZd fLFkr dk v/; ; u djus l sFkA vkt vFkZ kL= l keftd foKku dk , d i æ{k fo"K; gA bl dsvlrxZ mRi knu] forj .k] mi ; ksx] fu; kstu vksj vkfFkZd l eL; kvkadk v/; ; u fd; k tkrk gA bl izdkj vFkZ kL= ekuo bPNkvka vksj mudsfy, fd, x, iz kl ka dk v/; ; u gA l ekt eækuo dh vud izdkj dh bPNk, j vksj vko' ; drk, j gish gA enyHkur vko' ; drkvka dsvlrxZ Hkkstu] edku] oL=] LokLF;] l g {kk} f'k{kk vkfn l keku; vko' ; drk, j gA bu vko' ; drkvkad h i frZfHkUu&fHkUu l egka }kjk fHkUu&fHkUu rjhds l svi usLrj] oru vksj vU; i kFkfedrkvkads v k/kkj ij dh tkrh gA fofHkUu ekuo vko' ; drk, j l e; ds l kFk i f j o f r Z Hkh gkrh jgrh gA

vkfFkZd l d k/kuka }kjk mRi knr l kefxz kavksj I Økvkadksnksi æ{k l egka eafofHkfr fd; k tk l drk gA ekuoh; l d keku vksj vekuoh; l d k/kuA ekuoh; l d k/ku Kku] I pūk] cks) d , oarduhd dks ky rFkk vU; l kef; Zl ækVr dj vekuoh;

I d k/kukadkseirZ: i inku dj mi ; ksch oLrny/kavlj I okvkaeifjofrZ dj nrh gA vekuoh; I d k/kukadsvUrxZ i Fohj I emj] ufn; kj >hy] txy] igkMj] [kfut I ank vlsj vU; Hkksrd I ank vkrh gA

ekuo 0; ogkj dsv/; ; u dsfy, dbZfu; e vlsj fl)kr ifrikfnr fd, x, gdfuea I d k/kukavlj I okvka dk mRi knu] mi Hkksx] ekp vlsj vki firZi frLi/kzeW;] egRo] , dkf/kdkj vkfn dksfoofpr fd; k x; k gA ; sl Hkh I fe vFkZ kkl= dsvUrxZ vkrsgA ogn-vFkZ kkl= dsvUrxZ jk"Vh; vlsj vUrxj"Vh; Lrj ij ekuo dY; k.k dsfo"K; vkrsgA jk"V dh I jdkj dk jk"V ds I Hkh I d k/kukaij Lokfero gkrk gSvr% vFkZ izkkyh dsfodkl vlsj ekuo dY; k.k dk mUkjnkf; Ro 'kkl u dk gkrk gA izkkyh Loræ vFkZ; oLFk vFkok fu; kstr vFkZ; oLFk ea l s dkbZ Hkh gks I drh gA fu; kstr vFkZ; oLFk ds vUrxZ I d kekuka dks dlnhNir izkkl fud ifO; k ds vUrxZ vkoVr fd; k tkrk gA fefJr vFkZ; oLFk ds vUrxZ I d k/kukaij Lokfero I koZtfud vlsj 0; fDrxr nksukagh izdkj dk gkrk gA

mijkDr vFkZ izkky; kavlj vFkZ; oLFk ds vUrxZ I puk vlsj Kku viuh egROI wkZ Hkfedk fuHkkrk gA vFkZ kkl= ds vUrxZ I puk dsfof'k"V {ks= l sl EcfU/kr 0; kol kf; d vFkZ kkl=; ka vlsj fo'k"V vFkZ kkl=; ka us vFkZ kkl= l sl æf/kr fO; kdyki vlsj izkky; ka ea l puk ds v/; ; u vlsj fo'kks /; ku fn; k gS vlsj bl {ks= ea l kfgR; dk I tu gksjgk gA

2-5 I puk dk I fe vFkZ kkl= (Micro Economics of Information)

I puk ds I fe vFkZ kkl= ds vUrxZ vFkZ kkl= l sl æf/kr dN I æfjor fopkj/kkjvka tSj svfuf'prrk vj tks [ke] fo }Sk] Ørk vlsj foØrk dse/; vl keltL; rk] I puk dsegro] eW; vlsj vFkZ I puk vFkZ dks/ka ds fu.kZ; vkfn dk v/; ; u fd; k tkrk gA

vfuf'prrk ekuo thou ea l nD fo | eku jgrh gA Hkfo"; dh ?kVukvka vlsj fO; kdyki ka ds l ædk eafuf'prrk dh Hkfo"; ok.kh dkbZ ugha dj I drka dN fo'kks fLFkr; ka dks NkM/æj ekuoh; bPNk'kDr vlsj ml dsO; ogkj dsfo"K; eafdl h okLrfodr k ; k i mZæku dks LFku ugha fn; k tk I drka fdl h Hkh {ks= ea i mZæku ka dks x.kukRed i Nfr ds vUrxZ ij 'kk; n LFkfi r fd; k tk I drk gSfdUrql Ei wkZ fo'ySk.k ds i'pkr gh ml siklr ifj.kkka ds vUrxZ ij mudh j puk dh tk I drh gS vlsj i klr /kj .kk dks vFkZ kkl= eaf'kks LFku fn; k x; k gA ; g ifj?kVuk vFkZ kkl= eafjyf{kr gkrh gSD; kkd I Hkh izdkj ds fuosk tks [ke] I shkjsgrsg vlsj gfu I scpusdsfy, mlgachek I j {kk dh vko'; drk gkrh gA I puk vFkZ kkl=; ka dk I pko gSfd vfuf'prrk dh fLFkr dks l e; I sl puk mi yCk dj kusij fdl h I hek rd de fd; k tk I drk gA vfuf'prrk dh fLFkr I keltL; r%Ørk vlsj foØrk nksukads l e{k jgrh gA I Hkh cktj I pukRed fo'kksrk, ij [krsgA vf/kdkkr%fdl h Hkh mRi kn ds l EclU/k ea Ørk dks foØrk dh viSk de tkudkjh gkrh gA ; g vki I Hkh dk vutko gks I drk gA tgka Ørk vlsj foØrk dse/; I pukvadh I keltL; rk ugha gkrh vFkok i wkZ I puk ugha gkrh ogkj vl ekurkvadk vflRo gkrk gA mi Hkksrk I j {k.k ds vUrxZ ; g vko'; d gSfd i Fke cktj dh I pukRed I j puk ij fo'okl dhft, vFkZ mudh tkudkjh dhft, D; kkd vf/kdkkr% mi Hkksrk mRi kn ds l EclU/k ea ijh tkudkjh ugha j [krsgA

2-5-1 I puk vlsj foi .ku

foi .ku 'kcn dk iz; ksx dbZ: i ka eafdl; k tkrk gA bl s'kkM æ vFkok ekdæVæ Hkh dgk tkrk gA I puk vkt cktj dh oLrQ

gð I þuk mRi kn d bl dk foð; djrsgð vefjdu ekdVx , I kfi , 'ku dsvuð kj& Bfoi .ku mu 0; kol kf; d fð; kvkædk fu"i knu gS tks oLrþ/ka vks I ðkva ds iðg dks mRi kn d I smi Hkkðrk dh vks funs'kr djrh gðp bl h iðkj gðl u ds vuð kj& Bfoi .ku mi Hkkðrkvkadh bPNkvkædksKkr djuð mlgafof'k"V oLrþ/ka , oamRi knkæai fjofrðr djusvks rRi 'pkr mu oLrþ/ka vks I ðkva ds }kj k vf/kdkf/kd mi Hkkðrkvkædsmi ; ks dks I Hko cukusdh i fð; k gðp bl Hkkfr foi .ku }kj k oLrþ/ka vks I ðkva dksmi Hkkðrk rd vkl kuh I sigpk; k tk I drk gð

oLrþ/ka vks I ðkva dksmi Hkkðrk rd igpkusgrqdbziðkj dscktkj gð tS & ¼½ mi Hkkðrk mRi kn ½½ chek I j {kk ¼½ dk; @jstxkj ¼½ foðh; cktkjA

● **mi Hkkðrk mRi kn cktkj %**

mRi kn cktkj ea I keU; r% [kþjk fcðh gkrh gS tgl; [kjhnkj ; k Ørk mRi knu dh xqkoðkk] nksk] tks [ke vkfn dsckjseaføðrk dh vi {kk de tkudkj h j [krsgð 0; ki kfj d ifr" Bku dsifr fo'okl mRi lu djusdh rfv I sfoðrk Ørk dksfofHku iðkj I syHkkrgð tS sxkjUVh nðj] NW nðj vkfnA xkjUVh , d iðkj dk chek I j {k gS tks mRi kn dsvl Qy ; k [kjkc gkusdh fLFkr grqfo'ol uh; rk mi yC/k djkrk gð Ørk ds ikl Hkh ; g fodYi gkrk gSfd og fofo/k iðkj dsmRi kn I kfgR; ds }kj k vPNh xqkoðkk okysfo'ol uh; mRi knkædksØ; djA vkt mRi kn d vks foðrk mRi knkæds }kj k vPNh xqkoðkk okysfo'ol uh; mRi knkædksØ; djA vkt mRi kn d vks foðrk mRi knkæ vks I ðkva I sl Ecfu/kr I þuk, ; mi Hkkðrk rd igpkrgðvks mRi kn dsifr fuf'pr djrsgð VM ekd] VM ue] ck.M vks fo'ol uh; I ðk foðrk dh I k [k dksc<krh gð bu I Hkh fð; kdyki kæage I þuk dh Hkæedk dksn[k I drsgð

● **chek I j {kk cktkj %**

chek I j {kk cktkj dsvlrxðr foHku iðkj dh I þukRed I eL; k, ; n[kusdksfeyrh gð chek I j {kk /kkjd chekdrkz I svf/kd I þuk, ; j [krk gSft I I schek dEi uh dks tks [ke Hkh mBkuk i Mfk gð bl dsfy, chek I j {kk dEi uh vc I EHkkfor [krjædsifr tkx#d gkdj fuf'pr fu; e vks ; kstuvkædsvarxðr i jh{k.k dsi 'pkr gh dne mBk jgh gð

● **dk; @jstxkj cktkj %**

dk; Zvks jstxkj ds {ks= ea I þuk egROI wIz Hkæedk fuHkkrrh gð dbz, d sðkj d gð tks jstxkj cktkj dks i Hkkfor djrsgðftueaiæ[k : i I sJfedka dk Je eW;] cjstxkj h] dk; Zdjusdh mez vks I e; & l e; i j NVkbz vkfn gð fu; kstuvks dk; Z<æusokys I þuk nusvks i klr djusgrqdbziðkj dsek/; ekævks fof/k; kædk I g; ks yrs gð

- **foúkh; cktkj %**

foúkh; cktkj eavi wkvj vLi "V I þuk] tks[ke vj vfufr'prrk foúkhú i zkj dh Hkíedk fuHkkrh gá ; sl eLr ckráfoúkhú Ø; , oai th cktkjai j ykxwgrh gá I þuk [kktuk] mRi úu djuk] I Ei f"kr djuk] vftz djuk vj vftz djusvkn eadbzidkj dsykr cktkj eal fØ; jgrsgáts & yunkj] [kjhnkj vj LVkú ekú eafcpky, rFk 'ks j ckdj vkfA vr%foúkh; cktkj grqdkbzI keú; vo/kk.kk i Lr r ughadh tk I drhA I k/kj.kr% dN fo'kk i zkj dh vkfkd , oafókh; I þuk, afoúkhú I LFkka }kj mi yC/k djkbz tkrh gá ts & izk ra=kadsok"kd ifronu] foúkh; fuoskdkgrqI þuk, LVkú ekú] foúkh; i fr"Bkukadsfooj.k] foúkh; fo'yšk.k vj vU; , s h gh I þuk, al ekpj&i=kavj if=dkvkaefu; fer izkf'kr grh gá bu I c fØ; kdyki ka eHk I þuk dh Hkíedk n"Vxr grh gá

2-6 I þuk vFk; oLFk (Information Economy)

vFk kL= dk ogr-Lrj fdl h jk"V^a dh jk"Vh; vFk; oLFk ds v/; ; u I sl Ecfú/kr grk gá bl eaHk I þuk dh Hkíedk egRoi wkvj gá vkt I þuk vkfkd mRi knu of) vj fodk ds {ks= ea, d iz[k dkjd dh Hkíedk fuHk jgh gá fo'o ea vxzh; fodf r jk"Vka us I þuk vFk; oLFk dk fodk fd; k gá edyi usvkfkd fØ; kdyki kadk fp=.k mu I LFkka dk mRi knu djrgá budsvlrz& 1- f'k{kk] 2- 'kzk , oafodk] 3- I þkj ek/; ej 4- I þuk e'khujh vj 5- I þuk I skvka dk I fefyr fd; k x; k gá

vFk; oLFk dks iHkfor djusokys iz[k I ákvd fuEufyf[kr gá%

- I þuk Je'kDr
- I þuk , oal sk, a
- foúkhú I þuk m|kska, oau, cktkj kadk mn;] vj
- I þuk vlr% I þuk , oal xBu

- **I þuk Je'kDr**

I þuk Je'kDr dks xfkky; , oal þuk 0; kol kf; dkads i kjEifjd I egr dsvlrz vc I hfer ughaj [kk tk I drkA vc ; svU; dbz I egrkads I kfk tMlj ogr~: i ea0; kol kf; d I þuk dk fodk dj jsgá I þuk Je'kDr ds vlrz I þuk mRi knu] I þuk i fØ; kdj.kdrkz I þuk forjd vkf I fefyr gá I þuk dk {ks= cgr 0; ki d gá vr%vU; foúkhú {ks=kadsvlrz Hk Je'kDr I þuk mRi knu {ks= eaú, i freku LFkfi r dj jgh gá I þuk Je'kDr }kj jk"V^a dh vFk; oLFk I n<+gþz gá

- **I þuk mi dj.k I sk, j %**

I þuk mi dj.k , oal skvka dsvlrz dk; ky; i zaku] dEl; wj] tul þkj I sl ecfú/kr mi dj.k] jSM; k; Vy/hfotu]

nij l þkj] byðVkfud ek/; e] uðVodZvkfn vkrsgA vc l þuk l ðkvkadh l hek eaf' k{kk} 'kkk , oafodkl] dEI; Wj i fØ; kdj .kj Mv/k dE; uhdðku foðkh; 0; ki kfjd fof/k vðj i zdku vkfn l fEefyr gA l þuk l ðkgd ds: i eaffoek i zdkj dsvk/kfud l þkj l k/ku fdl h Hkh LFkku ij l EcfU/kr l þuk mi yC/k djkrsgA l þuk m | kx fofHku l ðkvka dsek/; e l svFkð; oLFkk eal g; kx dj jgk gðtð k fd Li"V gA

- **l þuk m | kxkavkð u, cktkjædk mn; %**

l þuk Je'kfDr dsfoLrkj dsl kfk mi dj .k vðj l ðkvkaefoLrkfjr u, ifrekukaust l þuk m | kxkavkð u, cktkjædk dks i frLFkkfir fd; k gA jk"V² dsvlrxðr tgal l þuk Je 'kfDr dk mi ; kx gþk gSogha varj kZVh; i frLi /kkZ Hkh mRi l u gþz gA l hek LFkkukl rj .k l sl æð/kr ubz; kst uk, a tð sckð) d l Ei fUk vf/kdkj] 0; ki kfjd ; ð vðj ifrcak , oavU; ck/kk, aHkh mRi l u gþz gðftuds l ek/kku dsfy, l eþpr fu; e cuk, tk jgsgA

- **l þuk vlR% l j þuk , oal xBu %**

l þuk vFkð; oLFkk grq l þuk vlR% l j þuk dsvlrxðr f' k{k k vðj i f' k{k.k} 'kkk , oafodkl] l þkj ek/; e] nij l þkj vðj vU; l eku l þuk l æð/kr 0; oLFkk, adh tkuh pkfg, A vlR% l j þuk mPpLrjh; rduhdh dsvk/kkj ij gkuh pkfg, ft l l sl Hkh i zdkj dh l fEefyr l þukvka vðj l þuk i ðstka dks mi yC/k dj; k tk l dA dEI; Wj vðj nij l þkj dsek/; e l sl þuk dksfo' o dsfd l h Hkh {k= eami yC/k dj; k tk l drk gA ; g l þuk l þkj i kð kðx dh dk 0; ki d i Hkko gA

2-7 l þuk ink; d l ÆFkk, a (Information on Provider Institutions)

l þuk l ðk l sl Ec) l ÆFkku tksLora= : i l svFkok fdl h fo'kky l ÆFkku dh , d bdkbZds: i eal þuk l ðk inku djrs gA l þuk l ÆFkku dgykrsgA l þuk l ÆFkku vud i zdkj dsgkrsgA budk l xBu vðj l þkyu] l ÆFkk dsemy mnas ; ka vðj dk; kð ds vuq i gðrk gA l þuk l ÆFkkuka ds i z[k i zdkj fuEufyf[kr gA

1- l þuk dðnz (Information Centre) %

l þuk dðnz dh LFkki uk fdl h fof'k"V mnas ; vFkok y{; dh i frZgrq dh tkrh gA l þuk dðnka }kj k vðj pkfjd vðj vukð pkfjd l þuk l k/kuka dsek/; e l smi ; kxdrkZ/ka dh l þuk vko' ; drkvka dks i wkZfd; k tkrk gA fujl rj l e) gks jgh l þukvka ds QyLo: i vkt mi ; kxdrkZ/ka }kj k i l rð vFkok i zyk dh ekx u djrs gq vHk" B l þuk dh ekx dh tkrh gA l æð/kr l þuk dðnka }kj k mi ; ðr mi ; kxdrkZ dks mi ; ðr l þuk ; Fkk' kh'kz vðj okðNr Lo: i eami yC/k djokus ds i z, kl fd; s tkrsgA l þuk dðnka dk rkr i ; Z, ð sl ÆFkkuka l sgStks mi ; kxdrkZ/ka dh ekx ds vuq i fof'k"V l þukvka dk p; u] vf/kxg.k] l xg.k dj i fØ; k o l a k/ku dsckn vko' ; drkuð kj l þuk dh i þi l r djrs gA l þuk l kskadh fofo/krk vðj i zyrk] i zyk ka dsc<fseW;] fofHku fo" k; {k=ka e ags jgs uohu fodkl kþ uohu i zdk' kuktþ l þuk l ðkvka vðj Mv/k cd ds vHkxe grq vðj Je dh f] jkofUk dks jkdus ds mnas ; l sl þuk dðnka dh LFkki uk gðrk gA

I þuk dlnka }kjk inku dh tkusokyh fofHklu I skvkaeal nHkZ I skj I kfgR; @I þuk [kkst] vuþkn I skj xBfK I þh I skj I kjdj.k I skj cBd I þukvka vks ysk vkae.k dh ?kkSk.kk] uohu izdk'ku vks uokxr iyysk dh I þuk inku djuk] vkfn mYys[kuh; gA orþku eal þuk dlnkadh c<rh gþzvko'; drk dsdkj.k I Ei wkvfo' o eafofHklu Lrjka ij I þuk dlnkadh LFkki uk dh tk jgh gA Hkkjr dsiazdk jk"Vh; I þuk dlnkaeafuLds j] Mj hMkks] ukl Mkkks] , uvkba h] I hMkks vkfn izdk gA

2- I þuk fo'ySk.k dlnz (Information Analysis Centre) %

ijEijxkr : i I sxFkky;] I þuk dlnz vks vU; I þuk I hFkkuka dk izdk mnas ; mi ; kxdrkz/ka dh I þuk vko'; drkva dh i firzgrq iyysk mi yC/k djokuk gA I þuk dh fo'kkyrk vks fof/krk dsdkj.k mi ; kxdrkz/ka dsfy; s I þuk ds I exz eal sokfNnr I þuk dh ikfir vR; Ur dfBu gksxbz gA bl I eL; k ds I ek/kku gsrq, d vU; I þuk I hFkku dh vko'; drk vuþko dh tkusyxt lugal þuk fo'ySk.k dlnz dsuke I stku tkrk gA I þuk fo'ySk.k dlnz dh LFkki uk izdk : i I s , d fof'k"V ysk; dh i firzgrqvFkok fof'k"V {ks= I s I ecfu/kr I þuk vFkok Msk dsvf/kxg.k] p; u] I ag.k] i qikzlr] eV; kaðu] fo'ySk.k vks I a ySk.k dj Msk I dyu] I aks .k vks jhi stst rskj djuk vFkok I þuk@Msk dks I ekt dsfy; smi ; þr I kef; dj fo'ol uh; vks ikef.kd Lo: i eal Lrqr djus gsrq dh tkrh gA ; g , d I exz ifO; k gA

I þuk ykHknk; d mi ; kx dsfy; s; g vko'; d gSfd mi ; kxdrkz/ka dk I e; vks Je mi ; kxh I þuk dh [kkst ea0; FkZ u gA I þuk dh mi yC/k mi ; kxdrkz dh Kkr Hkk"kk eagksuh pifg, rFkk eV; kaðu dj fo'ol uh; vks ikef.kd I þuk gh mi yC/k djokbz tk, A bu I Hkh mnas ; ka dh i firzgrq I þuk fo'ySk.k dlnkadh LFkki uk vfuok; Zgksxbz gA I þuk fo'ySk.k dlnz, d izdk i Hkko i wkvra= gSft I ds }kjk mi ; kxdrkz/ka dks eV; kfidr vks ikef.kd I þuk rFkk I e; vks I qo/kktud : i eami yC/k djokbz tkrh gA I þuk fo'ySk.k dlnz }kjk fdl h fof'k"V vFkok fof'k"V {ks= I s I ecfu/kr I þuk@Msk dk vuþe.khdj.k] I kjdj.k] vuþkn] I eh{kk} I a ySk.k vks eV; kaðu dj , d fuf'pr mi ; kxdrkz I eng dks jhi stst] I ikfir vks I xfbR Lo: i eami yC/k djok; k tkrk gA I þuk fo'ySk.k dlnkadsek/; e I smi ; kxh vks I qo/kktud Lo: i eal þuk mi yC/k gsktks dsdkj.k mi ; kxdrkz/ka dk i fjJe vks I e; I þuk dh [kkst ea0; FkZ ughagkrk gA I þuk fo'ySk.k dlnka }kjk izdkf'kr I kfgR; dh mi yf/k u djok dj izdkf'kr I kfgR; eafufgr I þukvka@Msk dh mi yC/k djokbz tkrh gA I þuk i l kj.k vks i qikfir ds I kfk&l kfk dlnka }kjk fo'kky ek=k eal þuk@Msk dk i Lrqrhdj.k vks fo'ySk.k fd; k tkrk gA I þuk fo'ySk.k dlnz mi ; kxdrkz/ka vks oSkkfud dlnkadk , oafof'k"V Msk dk I ag dj] I þuk dh I eh{kk vks vkl ou dj] fo'kSkKka dks vuþhy vks I yHk Lo: i mi yC/k djkrsgA

I þuk fo'ySk.k dlnz dh vk/kkj Hkur fo'kSkrk, &

- (i) fof'k"V {ks= I s I ecfu/kr I þuk vFkok I ka[]; dh; Msk ds I eko sk gsrq I þukvka dk fo'ySk.k] 0; k[]; k] I a ySk.k] eV; kaðu vks i Lrqrhdj.k]
- (ii) fo'kSkKka }kjk fo'ySk.k] eV; kaðu vks I a ySk.k]
- (iii) uo&eV; kaðu I þukvka dh vkykþukRed I eh{kk rFkk i frfO; k

I þuk fo'yðk.k dðnz dksrhu Jð.k; ka eafokkftr fd; k x; k g&

- (i) ^fo"k; &vflkeð[kh dðnz*&ikFkfed : i I sfok"V {k= eafok/kor : i I sidkf'kr I kfgR; I sl EcfU/kr gkrs g&
- (ii) ^y{; &vflkeð[kh dðnz*&dk I EclU/k I keftd fgr dsfy; sv/; ; u dh tk jgh fo'k"V I eL; kvka I sgkrk gR rFkk bl grqizkf'kr I kfgR; ds I kFk&I kFk I jdkjh ifronu] vks] kðxd I kfgR;] vks] vU; vukð pkfjd I pkj I k/kukadh vko' ; drk gkrh g&
- (iii) ^I kfjd dðnz* ; k ^tux.kuk dk; kÿ; **&tkvifj"Ñr ; k vki'kd : i I sl ð kf/kr ifj.kkekaðks I æfgr djrgð rFkk ftudk I EclU/k fo'kky ifjeki dsrF; ka tð sl ep&foKku dk v/; ; u] vkfn I sgkrk g&

I þuk fo'yðk.k dðnz dsmi ; kxdrkð/ka ds i ðkj &

● **vud ðkkudrkð vks oðkfud**

oðkfud] vud ðkkudrkð vflk; kð=d vkfn oðkfud vks rduhdh I þukvka dsmi ; kxdrkð/gkrs g& budk I EclU/k f'k{k.k] 'kðk vks fodkl kRed xrfok/k; ka I sgkrk g& I þuk fo'yðk.k dðnz }kjk mi ; kxdrkð/ka dksuohu I þukvks fo'k"V {k= eagksjgsuohu fodkl ka eafifjpr djokus mi ; kxdrkð/ka dsJe vks I e; dh cpr grqiz; kl fd; s tkrsg&

● **uhfr fuekðrk@fu; kst d**

uhfr fu/kkð] fu; kst d] fu.kkð; d] i ðkd] mPp vf/kdkjh ox] foðkh; 'kk[kk, avkfn bl Jskh dsmi ; kxdrkð gð ftudh I þuk ekaxvR; r fofo/krki wkðgkrh g& i ðkd] uhfr fu/kkð] dka vks fu; kst dka dh vko' ; drk, anks i R; ; ka vFkkð~I eL; k dk I ek/kku vks mfpr fu.kð;] I s iðkkfor gkrh g& I þuk fo'yðk.k dðnz }kjk bl Jskh ds mi ; kxdrkð/ka dksfu; kstu] I þkyu vks fu; æ.k I EclU/kh I þuk, ainku dh tkrh g&

● **I Ei ðkd@e/; LFk**

I þuk mRi knðkavks I þuk dsmi ; kxdrkð/ka eaf I Ei dZLFkfi r djusokys I þuk e/; LFk] f'k{kð] tu I þkj ekeke] 0; fDr vkfn bl Jskh dsmi ; kxdrkð g& e/; LFkkaðk i æ[k mnðs ; fo'k"V dk; k eaf fØ; tu Hkkxhnhkjh grqykska dh fpöru 'kÿh] vks 0; ogkj eamfpr ifjorðu ykuk g& I þuk fo'yðk.k dðnz }kjk bl Jskh dsmi ; kxdrkð/ka dks uohu rduhdka I sl EcfU/kr foLrð tkudkjh inku dh tkrh g&

3- Mðk dðnz (Data Centre) %

I þuk i kð] kðxdh ds vk/kfud ; q eafodkl kRed xrfok/k; ka eafylr i R; ð euf; dh ey/Hkur vko' ; drk Mðk I æg.k g&

fofHkUu izdkj dh I kekftd xfrfof/k; ka l sl æ&kr ; kstuk fuekz k] fodkl vks mfpr fu.kz yusgrqHkh MS/k dh vko'; drk gkrh gA fofHkUu {ks=kaeaekuoh; i xfr grqHkh I edkyhu I ÆFkkvka}kjk MS/k dh vko'; drk vuHko dh tkrh gA fofHkUu {ks=kaeaekuoh; i xfr grqHkh I edkyhu I ÆFkkvka}kjk MS/k dh vko'; drk vuHko dh tkrh gA Kku txr dsfujUrj fodkl dsQyLo: i fo"K; kads{ks= foLrj.k dsl kFk&l kFk uohu fo"K; Hkh mfnr gkrs tk jgsgA dN o"ksi w&rd MS/k dh vko'; drk foKku vks i ks] kfxdh ds{ks= rd gh I hfer FkhA fdrqor&ku eal ekt foKku vks ekufodh eaHkh MS/k dh vko'; drk vuHko dh tkusykh gA

fujUrj I kekftd fodkl grq rFkk I kekftd I eL; kvka ds I ek/kku grq; g vko'; d gSfd MS/k dk mfpr I æg.k] i Lrqrhdj.k vks I æBu fd; k tk; sftl I sml dk mi; ks i Hkkoi wkz<æ I sfd; k tk I dA MS/k I æg voykdu vks I o&k.k dsfofHkUu izdkjka vks fofo/k I kska I sfd; k tkrk gA MS/k dksfofHkUu J&.k; ka eaj [kk tk I drk gStS so&Kkfud MS/k] rduhdh MS/k] f'KYi &vkfFkz] MS/k] 0; ki kj MS/k] vks] kfxd MS/k] ekuo 'kDr MS/k] I kekftd&vkfFkz] MS/k] f'k{kk MS/k] vks] tu&l k&]; dh MS/k vkfna vk/kfud ; æ ea ; g vR; r vko'; d gSfd fofHkUu i) fr; ka }kjk fofHkUu I kska I s MS/k dk , d=hdj.k vks I æg.k dj mi; ksdrkz/ka dksmi yC/k djok; k tk; A bl m&s; dh i frZgrqmi; Dr I ÆFkkxr rduhd fodfl r dh xbzgSftl sMS/k&d&nzdsuke I si qkjk tkrk gA MS/k d&nz dh LFkki uk MS/k I æg.k] i Lrqrhdj.k] i kflrdj.k] , d=hdj.k] i q i kZlrdj.k vks i d kj.k grqdh tkrh gA MS/k d&nz }kjk mi; ksdrkz/ka dh MS/k&vko'; drkvka dsl arqV djus grqfofHkUu I kska I s MS/k i klr fd; s tkrsgA MS/k I ok, ainku djusgrqMS/k d&nz , d vk/kkjHkr I jpkuk gSftl ds i æ[k dk; ks ea MS/k I æy] MS/k eW; kadu vks MS/k i d kj.k i æ[k gA

MS/k c&l %MS/k d&nz vks MS/k c&l dksdHkh&dHkh , d n& jsdk i ; k; ZHkh I e>k tkrk gSfdUrq; snkska, d n& js I fHkUu gkrs gA MS/k d&nz vks MS/k c&l dsfo"K; {ks= rFkk muds }kjk I pkfyr fd; s tkusokysMS/k ds izdkj ds vk/kkj ij buea fHkUurk gkrh gA MS/k d&nka }kjk e[; r%foKku vks i ks] kfxdh dh Hkk&rd vks jkl k; fud fo'kSkrvka l sl æ&kr I k&]; dh MS/k I æfyr fd; s tkrsgA t&fd MS/k c&l fofo/k fo"K; ka l sl æ&kr gkrs gA rFkk muds }kjk I Hkh izdkj ds MS/k ftuea iz kkl fud] I k&]; dh] f'KYi h&vkfFkz] tux.kuk] iz&ku vkfn fo"K; ka dk I eko&k gk& dk I æy] fd; k tkrk gA

MS/k d&nka }kjk I æ vks fo'k"V {ks= I sl EcFu/kr MS/k I æfgr fd; s tkrsgA MS/k dk i æ[k mn&s; vi fj"Nr vks vka'kd : i I si Lrqr MS/k vFkok ij j.kkeka dk 0; oLFkki u djuk gA MS/k d&nz }kjk eki u I ok, aHkh tkrh gA MS/k&d&nz i k l fxd eki u rduhd dksfodfl r djuseaHkh I {ke gkrs gA MS/k d&nz }kjk MS/k eW; kadu] I æy] i d kj.k vks jQjy vkfn I s I EcFu/kr dk; ZHkh fd; s tkrsgA tksfd iz k&rk dh vko'; drk ds vuq i gkrs gA

I keku; r%MS/k d&nz dh LFkki uk fo'kky i s&d I ÆFkkukads, d Hkkx ds: i eadh tkrh gStS sfo'of | ly; vuq akku I ÆFkku] I jpkuk d&nz I jdkjh foHkkx@ea-ky; vkfna MS/k&d&nz dh LFkki uk LFkkh;] {ks=h; jk"Vh; vFkok vUrj kZVh; Lrj ij dh tk I drh gA I keku; r%MS/k&d&nz ds fuEufyf[kr rhu i æ[k I ækVd gkrs gA

- , d I Q; ofLFkr MS/k I æg ¼&Fkkz~MS/k c&l ¼
- MS/k I kska I sl a kstu(vks
- fofHkUu iz&ka dsek/; e I s MS/kc&l I svUrj fO; k o iz k&rk I ?ku I Ei dA

MŠ/k dšnz dh vko' ; drk]

- MŠ/k dk izdkj vŕš ifjek.k]
- dEI; Wj izkkyh
- uš/odZrFkk vU; midj.k

MŠ/k dšnz eaeŕ; r% MŠ/k I ŕg] MŠ/k fu; æ.k] MŠ/k 0; oLFkki u] MŠ/k oxhčdj .k] MŠ/kčđ I j puk vŕš MŠ/k i ŕi kZlr vkn dk; Z fd; s tkrs gŕ bu I Hkh dk; kšds I Qy I pkyu grq MŠ/k dšnz eami ; ŕr vŕš if'kf{kr dkfeđ I eŕpr I ŕ; k vŕš fofHku Jŕ.k; ka eafu; ŕr fd; s tkrs gŕ

MŠ/k dšnz ds dk; &

- fo' kšKka }kjk fofHku izyŕkka I s MŠ/k dh i kflr vŕš , d=hdj.k dj MŠ/k dh i kl ŕfdrk vŕš egUkk dk fuekčj .k vŕš mRiknd I kškadsvuq i mi; ŕr Lo: i eamŠ/k fuekčk
- i klr MŠ/k dk 0; oLFkki u ft I smuds }kjk ey MŠ/k dk i frfuf/kRo Hkh gks I dsrFkk i Lrŕhdj .k Hkh fd; k tk I dŕ I kFk gh vkjfeHkd Lo: i eami ; kšch ŕf=e MŠ/k dk Hkh 0; oLFkki u
- MŠ/k dks; æ i Buh; Lo: i ea: i klrj.k dj MŠ/kčđ fuekčk , uvkbŕ h rFkk fuLds j }kjk MŠ/k dšnz dh LFkki uk dh xbz gŕ bl ds vrfjDr i eŕk MŠ/k dšnz gŕ% HkkHkk i jek.kqvud ŕkku dšnz eŕcbŕ Hkkjr h; ŕf'k vud ŕkku I ŕFkku* ubZfnYyh] ŕ{kk foKku I puk , oai zŕku dšnz ubZfnYyh] ŕk"Vh; fpdfRI k xŕkky; * ubZfnYyh] ^eŕš e&foKku I ŕđkh foHkkx*] ŕk"Vh; I ep&foKku I ŕFkku] ŕk"Vh; tux.kuk vk; kšA*

4- xŕkky; (Library) %

; s I puk dšnz ijEijkr Lo: i gŕ xŕFkky; og I ŕFkk gŕtgk; xŕkka dks 0; ofLFkr <ŕ I sj [kk tkrk gŕ vk/kŕud xŕkky; Kku ds vf/kdŕf/kd iz kš ds fy, fujŕj iz Ru'khy jgdj Kku dk ipkj@id kj djrsjgrsgŕ xŕkky; Kku dk I ŕg djrs gŕft I smi; ŕr i k Bd dks I puk ; Fkl e; inku dh tk I dŕ xŕkky; Kku dk eŕnj gŕft I ds }kjk I Hkh i k Bd kadsfy, I eku: i I s [kys gŕ Kku dk I ŕyHk vŕš I okZ/kd mi; kš gh xŕkky; ka dk i eŕk mnŕš; gŕ

xŕkky; Kku dks I ŕfgr djrs gŕ xŕkky; I H; I ekt dk , d vfuok; Zvŕ gŕ xŕkky; Kku dks I ŕf{kr j [krs gŕ vFkkZr- bl dk I Ecu/k I Ei wkZ Kku I s gŕ mi; kšcdŕkZ/ka dh vko' ; drkvka ds vuq i izyŕkka vFkkZr eŕnr i ŕrdkŕ if=dkvkŕ i k.Mŕfyfi; kŕ i fronuka 'kšk&ičakka vŕš vU; izdkj dh mi; kšch i k B; & I kexh tŕ s n'; & J0;] ekufp=] ekbŕkŕQYe] ekbŕkŕQ'k vkn dk p; u] I ŕg.k i Lrŕhdj .k vŕš 0; oLFkki u rFkk bl I kexh dk ifj I pŕ.k vŕš I nHkZ I ŕk inku djuk xŕkky; ds i eŕk dk; Z gŕ

dEI; Wj foKku vŕš I pŕj rduhdkadsfodkl kadsifj.kkeLo: i fo'oLrjh; I puk izkkyh I Etko gks I dh gŕft I eavud ŕkku

vkš fodkl kRed xfrfof/k; ka dsi fronuka dh jpuK] i d'k'ku] i d' k'k vkš mi ; kx i wkz-%byDVkfud fof/k }kjk fd; k tkus yxk gA vk/kfud l pKj rdudhkaeaeifnr i yz[k dh vko' ; drk vuHko ughadh tkrhA i kNfrd fodkl Øe dh vUrfe voLFkk eage epzk l sbyDVMLud i yz[k dh vkš vxl j gksjgsgA xFkky; , d l kektfd l LFkk gStks tu l k/kkj.k dh mlufR grqI nD l fØ; gksdj l pUK inku djrh jgrh gA vk/kfud l ekt l pUK l ekl ds: i eafodfl r gksjgk gStgk ij egRo i wkz , oami ; kxh l pUKvka dh fujUrj vko' ; drk i Mfh gA xFkky; bl fn'kk eami ; kxh dk; Zdj jgsgA

5- i yz[ku dñz (Documentation Centre) %

xFkky; ds l eku i yz[ku dñz Hkh i yz[kka dk Hk. Mkj gSfdUrq; gk; ogn Kku dh višk l ve Kku dsforj.k vkš i d' k'k ij fo'kSk /; ku fn; k tkrk gA fofHku fo"K; k; fofHku&Hk"kkvka , oaf"K; ijd fo'o dsvuud {ks=kaeafofHku Lo: i ka eagks jgsKku dsfujrj] vullr vkš cgqk; keh of) dsQyLo: i fo"K; fo'kSkKka }kjk i yz[ku dh vko' ; drk vuHko dh tkus yxhA i yz[ku okLro ea xFkkyf; Ro dk fof'k"V , oamlur Lo: i gSftl eauohure l ve i yz[kka vkš fof'k"V i kBDkaij cy fn; k tkrk gA tGk; xFkky; ka ea vfhkyf[kr Kku ds i wkz mi ; kx grqI Hkh i d'kj ds i yz[k] l Hkh i d'kj ds i kBDkaij l Hkh dk; ksdsfy; s inku fd; s tkrsgA ogha i yz[ku e[; r% , d e/; ekxhZ l ok gS ftl eaf}rki wkz i yz[k ; k fof'k"V i Nfr ds i yz[k fo}kuka vFkok fof'k"V i kBDkaij inku fd; s tkrsgA i yz[ku ea l kfgR; d [kkt dh xgurk vkš l verk ij fo'kSk /; ku fn; k tkrk gA i kEifjd xFkky; ka dk l Ecl/k tGk; xFkka ds l xg] 0; oLFkki u vkš l e[pr iz kx l sgSogha i yz[ku dñka dk l Ecl/k l ve i yz[kka ds l xg] 0; oLFkki u vkš l e[pr iz kx l sgSogha i yz[ku dñka dk l Ecl/k tGk; xFkka ds l xg] 0; oLFkki u vkš l e[pr mi ; kx l sgA vFkz i yz[kka ds LFku ij i yz[kka eafufgr l pUKvka dks vf/kd cy fn; k tkrk gA i yz[ku dñka dk i e[k mnas ; fof'k"V i kBDkaij mudsmi ; kxh uohu l kfgR; dh v | ru tkudkj inku djrk gA vc i yz[ku dñz Loræ : i l svFkok fdl h vuq akku , oafodkl l LFku] 0; ki kfjd l LFku] vkš kfxd l LFku] l jdkjh fofHkx] vkfn ds , d Hkx ds: i eaHkh LFkfi r fd; s tk l drsgA i yz[ku dñka }kjk l pUK dk i d' k'k vR; r l d kf/kr Lo: i ea fd; k tkrk gStS & vuøef.kdk] l kj] m) j.k vkfnA i yz[ku dñka }kjk vfr fof'k"V mi ; kx drkz/ka dh ekax ij vuøkn rFk l kjk khdj .k l ok , aHkh inku dh tkrh gA i yz[ku dñka }kjk mi ; kx drkz/ka dh vko' ; drk vkds vuq i fof'k"V i yz[kka dk p; u] vf/kxg .k] l xg.k vkš forj .k fd; k tkrk gA i yz[ku dñka }kjk l eLr l xghr i yz[kka dk fo'ySk.k dj mi ; Ør i yz[k l sl EHkfor i kBD dks vfxe : i l sHkh ifjpr djok; k tkrk gA i yz[ku dñz dk rRi ; Zml LFku l sgStgk i d'k'kuka dks i ltr dj mudk l Lrhdj .k] l j {k.k] l f{klrhdj .k] l kjdj .k vkš vuøe.khdj .k fd; k tkrk gA bl i d'kj dh l kexh l sl Ecl/kr if=dk dk fuekzk dj ml ea#fp j [kusokysmi ; kx drkz/ka dse/; forj r fd; k tkrk gA 'kSk dk; Z fd; s tkrsgA xFk l ip; k; fufeZ dh tkrh gA tGk; vuøkn dk; Z vkš Nk; k i frfyfi ; kafufeZ dh tkrh gA i yz[k ink; d l ok rFk byDVkfud i yz[k forj .k Hkh fd; k tkrk gA

6- forj.k dñz (Clearing House) %

e[; : i l sforj .k dñz , d fof'k"V l LFku gStks , d dñz; 'kk[kk ds: i ea i yz[kka dk l pkyu vkš l pUKvka dk l xg.k] oxhZj .k vkš forj .k djrsgA forj .k dñka dk Lo: i xFkky; vkš i yz[ku dñz ds l eku gks i j Hkh bl dk l ok {ks= xFkky; vkš i yz[ku dñka l sdgha vf/kd foLr r vkš 0; ki d gkrk gA forj .k dñz ds N% i e[k dk; Z gA 1/12 xFkky; 1/2 1/2 i yz[ku 1/3 n" ; & J0; mRi knu 1/4 1/2 M/k l Lrhdj .k 1/5 i d'k'ku vkš 1/6 1/2 l pKj l xBuA buds vfrfjDr forj .k dñka dk vfhki k; M/k dh [kkt vkš M/k l pkyu] i kB; & l kexh i d'k'ku] l eku fo"K; {ks= ij dk; j r fofHku 'kSk l engka dse/;

dMh ds: i eadk; I vizardf'kr I kexh dk I pkyu vks idk'ku] mi ; kxdrkz/ka dk vfxæ vlošk.k] mi ; kxdrkz/ka dh ifjofr' vko' ; drkvkadsvuq i miyC/k I pukvka dk eW ; kaļu : i kUrj.k vks i Lrphdj.k vkfn I shk gā bl dh I ok, a fof'k"V i dzkj dh gsrh gā

oSkfud Hk"kk 'kSy eaforj.k dlnz, d uohu 'kCn gā i yskka dsHk.Mkju dsI kFk&I kFk I puk dsforj.k eaHkh dlnh; 'kk[kk ds: i eal ok inku djusokysforj.k dlnz vuq akku vks fodkl dsvfHky[ka dk I æg vks 0; oLFkki u Hkh djrs gā

7- jQjy dlnz (Referral Centre) %

jQjy dlnz, d fof'k"V I LFku gSftI dk ied[k mnas ; tkudkfj; k] i Nrkn vFkok i zuka dks I puk I kradh vks fun' kr djuk gā I puk i d kj.k dsdk; Zeavudka I LFku I yXu gā bu I Hkh I LFkukadsmUke vks i Hkoiwzdk; ksgsq; g vko' ; d gSfd fdl h , d 'kk[kk }kjk bl i dzkj dsI Hkh I LFkukadk I efpur I elbo; fd; k tk; ā bl vko' ; drk us, d uohu I LFku dh LFkki uk ij cy fn; k tksfd jQjy dlnz gā jQjy dlnz I puk e/; LFk ds: i eadk; Zdjrsgq foKku vks rdudh fo"k; ka dh ftKkl kvka dks mu I LFkuka vks 0; fDr fo'kSk dh vks fun' kr djrs gā tksKku dh I gHkfxrk gsrqRij gā jQjy dlnz }kjk 'kxdrkz/ka dks MS/k vks I puk i kfr gsrqmi ; qR I krad s xFky;] i yskku dlnz I puk eW ; kaļu dlnz vFkok i ysk ; k 0; fDr fo'kSk dh vks fun' kr fd; k tkrk gā ; g I puk I krad kbzi ysk I LFku vFkok dkbz0; fDr fo'kSk Hkh gks I drk gā i jEijxr xFky; I okvka eaxFky; eamiyC/k I krad ij gh fuHk jguk i Mfk gStcfd jQjy I ok ea i yskh; I krad sydj fofHku 0; fDr; k] fo'kSk k] I qokvka vkfn ds0; ki d Kku dk mi ; kx fd; k tkrk gā vko' ; drkvka dsvk/kj ij jQjy I LFkuka }kjk i yskh; I puk I kradh Okbzy dk 0; oLFkki u vks fofHku fo"k; fo'kSk kradh i=koyh dks0; ofLFkr j [kk tkrk gā

jQjy dlnz, d , d k I LFku gStks'kxdrkz/ka dks I puk vks MS/k dh i kfr gsrqmi ; qR I krad s xFky;] I puk eW ; kaļu dlnz i ysk vks i yskku dlnz vks 0; fDr fo'kSk dh vks fun' kr djrk gā oSkfud vks rdudh I epk; gsrqjQjy dlnz }kjk I puk Mkd ds: i eal ok inku dh tkrh gSftI eavko' ; d I puk inku u djrs gā mi ; qR I krad Ecu/kh I qko inku fd; stkrsgā jQjy dlnz dk rRi ; Z, d sl LFku I sgStks fofHku i dzk'kuk] I LFkuka vks 0; fDr fo'kSk tS sl kradh vks fun' kr dj vko' ; d fo"k; ij oSkfud I puk, amiyC/k djokrk gā jQjy dlnzeak= I puk I krad gh miyC/k gks gā jQjy dlnzeak= vfxe mi dj.k tS sfun' kdk] I nf'kzk vks I ph vkfn dksgh I ægr fd; k tkrk gā jQjy dlnz }kjk ek= i Nrkn I ok gh inku dh tkrh gā

fofHku vks fofo/k ekakadh i frz xFky; tS sfdl h , d I LFku }kjk iwz ugha dh tk I drhA fujUrj o/k'khy vks cgp/k; keh I puk dsI efpur 0; oLFkki u gsrqjQjy dlnz }kjk r= ds: i eavko' ; drkvkadh i frz dh tkrh gā jQjy dlnz dk ied[k mnas ; i jEijxr xFky; I okvka eaxFky; eamiyC/k I krad ij gh fuHk jguk i Mfk gStcfd jQjy I ok ea i yskh; I krad sydj fofHku 0; fDr; k] fo'kSk k] I qokvka vkfn ds0; ki d fdl h , d I puk r= dsHk kj dksde djuk gā , d jQjy dlnz }kjk fd; stkusokys ied[k dk; ZfuEufyf[kr gā

(1) fdl h fof'k"V y{; vFkok fo"k; dsMS/k vlsj I p'uk I ts'kad h I p'ukvka dk I xg I ftr djuk

(2) fofHku I ts'ka }kjk mi yC/k I okvka@I p'uk@MS/k dsi d'kjad h folr'r I ph vlsj I jy vfhkxe graqfolr'r fo"k; vu@ef.kdk dk I dyu]

(3) mi ; kxdrkz/kadksmfpr I p'uk I ts'kad h vlsj funt'kr djuka

jQjy dlnz dk , d egROI wkz dk; ZI p'uk I ts'ka ds I EclU/k ea funt'kdk dk I dyu djuk gSftI ea (i) 'kksk] v/ ; ; u (ii) xfk I ph I o{k.k (iii) I jdkj , oa futh vpyka }kjk ik; kstr ifj; kstuk, a (iv) mi yC/k fo'kSkK vlsj ijke' kzkrk (v) I EesyU I aksBh] dk; Zkkyk vlsj if'k{k.k dk; De rFkk (vi) foUkh; I gk; rk inku djusokys i kf/kdkjh] I h.Fkk vlsj 'kk[kkvkad h tkudkj h I feefyr dh tkrh gA

fof'k"V I p'uk i kflr eavFkok mi ; kxdrkz/kadh I p'uk I eL; kvkads I ek/kku eajQjy dlnkad h egROI wkzHkfedk gA vi us mnas ; kad h i firZgrqjQjy dlnz }kjk fuEufyf[kr dk; Zdjrs g&

(i) fofHku fo"k; ka eami yC/k I eLr I kjxfHkz' I p'uk I ts'kad h I ph dk fuekz k]

(ii) foKku vlsj rdudh I p'uk I ts'kad h funt'kdkvka dk I dyu vlsj i d'k'ku]

(iii) oSkfud I p'uk I eay eafo | eku I pkyu I EclU/kka dk fo' ySk. ka

2-8 I p'uk dlnka , oa I okvka dk vFkz kL= (Economics of Information Centre and Services

I p'uk dsegRo , oavko' ; drk rFkk bl dk fodkl xgu I EclU/k gkus ds QyLo: i I p'uk i z'kj , oa I ok iz kky; ka ea tks fodkl g'vk gSml dk I p'uk vFkz kL= ds {ks= eaHkh i Hkko i Mk gA ifj . kker% I p'uk I okvka I sI EclU/kr fofHku vfhkdj . kka ftuea xfkky; , oa I p'uk dlnz Hkh I feefyr gA I Hkh dks vk/kqud I p'uk I ok rFkk 0; oLFkk dsLo: i ea , dhdj . k djus dh vko' ; drk vutko dh xbZ gA ftI I sI p'uk vko' ; drkvka ds f0; kdyki ka ds {ks= ea , d I q' xBr jk"Vh; I p'uk iz kkyh Lfkkfir dh tk I dA

xfkky; ka , oa I p'uk dlnkarFkk I p'uk iz kky; ka ds vLrxr , d egROI wkz i {k I p'uk i z'ku gS tks vFkz kL= I sI EclU/kr gS vlsj ml ds vLrxr xfkky; ; I p'uk i) fr; ka vlsj I okvka dh 0; ki drk dks Li"V djrk gA xfkky; , oa I p'uk dlnkad h foUk 0; oLFkk muds }kjk I apr /ku ds vLrxr dh tkrh gS tks fofHku I p'uk I ok , ami yC/k djus dh n"V I sI epr ughagkr'k ftI ds QyLo: i mUke I p'uk I ok , ainku djuseal eL; k mri Uu gsrh gA xfkky; ka , oa I p'uk dlnkad I pkyu tks i S'd I xBu djrs gAmudk Hkh mUkjnkf; Ro curk gSvr% I p'uk iz kky; ka , oa I okvka ds vLrxr I p'uk ds vFkz kL= dks /; ku ea j[krs gq mi ; pr I okvka dh 0; oLFkk vko' ; d gA

xĤkky; l  kvkadsv r r  l ko tfud xĤkky; vFkz kkl= dsl  nkzeal ko tfud olrql e>h tkrh gSD;  d muds }kjk mi y ek djkbz tkusokyh l  kvkadk mi Hkks: i jk l ekt djrk g  bu l  kvkadk m kjnkf; Ro 'kkl u dk gkrk g  bl fy, 'kkl u i wkz vFkok vk 'kd vu ku mi y /k djrk g  vk/kfud ifjofr  l  puk l  nkzeal ko tfud xĤkky; dksHkh vi uh l  k,  ckt kj dsn 'Vdksk l sfoukh; rRokadks /; ku eaj [krsqg l gyHk djkuh pkfg, A

fof'k"V xĤkky; ka, oal  puk d nka dh 0; olFkk muds i s d l  Fkkuka }kjk vi uh l  puk vko'; drkvkadsvuq i dh tkrh g  foukh; l eL; kvkadksn 'Vxr j [krsqg vi uh  k) d l  pukvka ds fodkl }kjk os vkfFkz l  p  k dk iz, kl dj jgsg 

xĤkky; ka, oal  puk d nka }kjk vuod izkj dh l  k, ainku dh tkrh g  bu l  kvkadksrhorl l smi y /k djkuosal  puk i ks] k xdh dh Hkfedk g  vr%bu l  kvkafo'kSk : i l s, l Mhvkb] l h, , l] vu e.khdj.k] l kj dj.k] i Lr hdj.k vkfn dks mi y /k djkrsl e; vkfFkz n 'Vdksk dksHkh /; ku j [kk tkuk vko'; d g  ctV cukrsl e; bl  kr dk fo'kSk /; ku j [kuk i M k pkfg, A

vFkz kkl= fo"k; dsv r r  l  puk vFkz kkl= vk] l  puk dsvFkz kkl= eabl dsegRo dks l e>uk fo"k; dsnksvko'; d g  ; | fi l  puk dsvk/kkj ij ; snksukagh , d igywekus tkrsg  nksukagh vfhkxe l  puk vFkz kkl= d nka; ik: i dksb xr djrs g  vFkz kkl=; ka dks l  puk l  Fkkuka vk] l  kvkads {ks= vk] dk; kadsKku grqmfpr n 'Vdksk dsl kFk l  puk dk v ; ; u vko'; d g  xĤkky; ka dks l  puk dsegRo dksn 'Vxr j [krsqg vi us0; kol kf; d m kjnkf; Ro dk fuokj pkfg, A l  puk vFkz kkl= v/; ; u vk] 'kksk dsu, {ks= vk] vk; ke LFkkfir dj l d kA ; gka ij ; g Li"V djuk Hkh vko'; d gSfd uohu fodkl ds ifji; ea uohu ; k ; rk Hkh vko'; d g  l  puk vFkz kkl= dh i kl  xdrk bl dsegRo ds vk/kkj ij l n  mYy[kuh; jgsxA

2-9 M /kcd , oal M /kcd vfhkxe

l   /kr vfhky[kka dh l  ; ofLFkr Okby dk M /kcd dgrsg  l f efyr : i l sl  dfyr M /k l  pukvka dks0; Dr djrs g  v k{kj kads l e p; dks M /k dgrsg  ; g egroi wkz l   k/ku ds: i eami ; k h g  M /k l   k/ku dsi 'pkr gh vFkz wkz Lo: i xg.k djrs g  rFkk ok Nr l  puk inku djusds ; k ; cu i krs g  M /k dk l xg.k gh M /kcd dgykrk g 

M /k dk fdl h Hkh iz k rk }kjk vko'; drkuq kj vfhkxe fd; k tk l drk g  fdUr qdEl; wj iz kkyh }kjk l k Vos j dseke; e l s M /k dk j [kj [kko fhkuu rjhds l s Okbyka eafd; k tkrk gS tksfd iz k rk ds vfhkxe dsvu ny gkrsg 

B M /k ij vk/kkfjr l  pukvka dk , d l  ; ofLFkr Lo: i ftl eafd l h fo'kSk olrq; k iz k rk ds mi ; k  dh l k h l  dfyr jgrh g  l  dfyr M /k fdl h iz k rk ds fy, l keku; gks l drsg  rFkk fdl h dsfy, fof'k"V gks l drsg 

vfhkxe dsi  z M /kcd dh l j  puk vk] l k Vos j iz kkyh dks l e>uk vko'; d g  Dojh (Query) y ost dk iz k  l  puk vfhkxe dsfy, fd; k tkrk g  M /kcd vfhkxe vk ykbv iz kkyh dsv r r  fd, tkrsg  D; k d&

- eW; oku MS/kcd I d k/kuka dh I gHkkfxrk I Hko gksI drh gS
- I kefigd i kf/kdj .k }jk I d k/kuka ij I efi pr fu; æ .k]
- I gHkkxh MS/k I d k/kuka ds vu j {k .k ea I gHkkfxrk
- cgn MS/kcd ka dk vfHkxe I Hko rFkk
- Rofjr , oami ; ksch

MS/kcd eaMS/k I xg] i qz kflr rFkk vfHkxe rjhdsga I puvkadsI dyu ; k I puvkadsI zdku] i fO; k] fo'ySk.k] i qz kflr , oain'kZudh iz.kkfy; kaij MS/kcd ij fHkkf"kr fd; k tkrk ga mnkgj .kLo: i Mhch, e, I MS/kcd ka dk mRi knu djrsga tks fd rkdZd I j puk okysvfHkyS[kka dh Okby dh i qz kflr dsmnæs ; I sl gHkkxh I puvkads, dh dj .k I sl Ec) gkrsga i R; d MS/kcd viuh mi ; ksrk ds vk/kkj ij fofHku gkrk ga MS/kcd dks nks n"Vdks ka I sfo'yS"kr fd; k tk I drk gS bl eaMS/k dk Hkdsrd I xg .k rFkk rkdZd ; k MS/k dk vfHk/kkj .k ki jd n"Vdks I fEefyr ga MS/kcd ea Okby dk iz, kx Hkdsrdh; MS/k I xg .k dsfy, gkrk ga vf/kdk MS/kcd ; k rks i R; {k Okbya; k vuOfer Okbya; k nkuagh ds I fEefyr Lo: i kaefMLd ij Hkdsrd : i I sl xgr jgrsga

MS/kcd dk rkdZd ; k vfHk/kkj .k ki jd n"Vdks bl ckr ij fuHk] djrk gSfd MS/k rkdZd : i I sfd I idkj 0; ofLFkr fd; k x; k gSrFkk I puk dsmnæs ; I SMS/k fdl idkj i qz kflr gksI dskA

MS/kcd fuEu idkj I smi ; ksch g&

- (i) [kst ij d I puk I okvka ds fuekZk ea I gk; d]
- (ii) iz kDrk MS/kcd ka ds fuekZk ea I gk; d]
- (iii) I ka [; dh ds fuekZk ea I gk; d]
- (iv) I puk idku iz kkyh gsrqmi ; ksch
- (v) , dh r I puk I okvka ea I gk; d]
- (vi) I puk I okvka ds eW; ka tu ea I gk; d]
- (vii) idku dk; k eami ; ksch]
- (viii) i qorZd dk; k ea MS/k dh vu d kj i kflr ea I gk; d]
- (ix) I puk ds i fO; kdj .k , oal d k/ku ea I gk; d]
- (x) MS/k dk i Hko'kkyh vfHkxe I Hko]

2-10 I puk vojksk (Barriers of Information)

orZku ea I puk txr eagksjgh fujlrj of) vS fodkl vS , d sgh vll; dkj .k gS tks I puk ds Lora= i dkg vS I puk vS Kku ds I efi pr mi ; kx ea vojkskd dk dk; Zdj jgs ga

1- vR; f/kd ek=k ea I puk dk mRi knu %oKku vS i kS] ksdh ds {k= eavnHkr fodkl] vu ddku vS vkfo"dkj

gq gāfd mudsifj.kkeLo: i oKkfud l kfgR; xqkkRed , oal ā; kRed nF"V l sbruh rhoxfR l smRi kfnr gqk
 gā oKkfudka , oa vloškodka dks vi us dk; žks= dh l pūk l kefxz; ka l s i wkz-% voxr gksk pkfg, A oKkfudka , oa
 vloškodka dks vi us dk; žks= dh l pūk l kefxz; ka l s i wkz-% voxr gksk l Etko ughagā ; | fi l pūk i kš| kšxdh ds
 vuqz; kx }kjk l pjk i fØ; k earhork vo' ; vk jgh gSfQj cgr l k l pūk l kfgR; fofHku i žy[kh; v[š] vi žy[kh;
 Lo: i kaeavc Hkh mi ; kxghu voLFk eal pūk ds<j ea0; FkZ l j f{kr i Mk gqk gš bl i žkj vR; f/kd ek=k eal pūk
 dk mRi knu vojškdk dk dk; Zdjrk gā iz kDrkvdh fofHku vko' ; drkvdksvuq i l pūk dk 0; ki d l tu
 fd; k tk jgk gā

- 2- **Hk"kk vojškdk** %l pūk dk mRi knu fdl h , d nšk eavFkok , d Hk"kk eaughagr k cFyd l eLr fo'o eafofHku
 Hk"kkvka ea fofHku ek/; eka ds vrxz bl dk i žk'ku@mRi knu gsk gā fdl h Hkh l pūk oKkfud vloškdk ; k
 vuq ākkudrkz dks fo'o dh l eLr ; k vf/kdkākr%Hk"kkvka dk Kku ughagr kA vr%l pūk dk mi ; kx dju l sog
 oāpr jg tkr gā bl i žkj Hk"kk l pūk ds l Ei ā.k eavojškdk cu tkrh gā
- 3- **foūkh; vHko** %dkbzHkh xFky; v[š] l pūk dnz l eLr mRi kfnr l pūk l kfgR; dksØ; ughadj l drk gSD; kād
 ml ds l ā k/ku l hfer gksrsgā v[š] l kfk gh l kfk foūk ds vHko ea uhu l pūk rdudh dk i wkz-%vuqz; kx ugha
 dj l drkA vr%cgR l h l pūkvka l soāpr jg tkr gā bl i žkj l ā k/ku dk vHko Hkh vojškdk i šk djrk gā
 Hkjr tš sfodkl 'khy jk"V^a dsfy, ; g , d cMā ck/kk gā
- 4- **LFkkvHko** %xřky; ka , oa l pūk dšnta eabruk LFku Hkh mi yC/k ughagr k fd og vf/kdkā l pūk l kexh dks
 0; ofLFkr djdsj [k l dā vr%LFku dk vHko Hkh vojškdk i šk djrk gā byDVkfud i žkj dh l kefxz; ka dk iz; kx
 fujl rj c<+jgk gSfdl rqbūga Hkh l ō; ofLFkr dju dsfy, LFku pkfg, A
- 5- **l e; Hko** %vuq ākkudrkz/kā vloškdk v[š] l pūk oKkfudk ds i kl bruk l e; Hkh ughagr k fd vi us fo" k; {ks=
 eamRi kfnr uhu l pūkvka ds l Ecl/k eafofHku l kka@ek/; eka l sl pūk dh tkudkj h i kl dj l dā bl Hkār l e;
 dk vHko Hkh , d vojškdk gsk gā
- 6- **mfpr l pūk l k dh vl yHkrk** %fo" k; fo' kšKk oKkfudka v[š] vuq ākkudrkz/ka dks vi us fo" k; {ks= l s
 l Eclēkr l pūk dk i žk'ku vFkok mRi knu dju sokys l pūk l kka dh tkudkj h ughagr h v[š] dHk&dHk tkudkj h
 gks i j Hkh ; sl yHk ughagr i k rā vr%og l pūk l soāpr jg tkrsgā
- 7- **l pūk dh [kst , oa i qā kflr dh l eL; k, a%**
- 8- **iz kDrk if'k{k.k dk vHko** %

2-11 I kjkák

2-11 I þuk við i Ñfr] xqk vls fo'kskrkvka dsvk/kkj ij I þuk Øe&0; oLFkk dksfu/kkzjr djrh gsvks fopkj/kkjvka dk i frufekro djrh gð I þuk dk I þkj dsI kfk ?kfu"V I Ecl/k gkrk gð I þuk fofue; dh oLrqgkrh gsvks I þkj I keftd fofue; dh i fØ; k gð fofHku izkj dh I eL; kvkadsfujkdj .k eal þuk , d egroi wZdkjd ekuh tkrh gð oLr% I þuk , d I keftd i fØ; k gStkseuo I Ñfr] I H; rk , oamns; dk foLrkj i fjofr r Fkk fodfl r djrh jgrh gð ; fn I ekt dks I þuk I soþr j [kk tk, xk rksml dk fodkl #d tk, xkA

rhozfr I sfodfl r fo'o eal þuk , d egroi wZl ð k/ku vls 'kfr ds: i eamHkj dj vkbZgð i R; d izkj dsvuð akku] vlosk.k vls fodkl eabl dk egroi wZLFkku gð I þuk dsvHkko eadkbZHh fodkl vFkok ixfr I Etko ughagð Kku ds i fj {ks= eal þuk dks, d rRo ds: i eai fjHkk"kr fd; k x; k gð I þuk dk {ks= cgr foLr gsvks i Ñfr xfr'khy gð I þuk t xr dsvlrxr dbZfo"K; {ks= , d sgftueal þuk dbrh; fclnqgkrh gð I þuk foKku dsv/; ; u eal þuk i ks] kfxdh dk i Hkko] fofHku izkfy; ka vls I okvka dk i knHkð eal þuk egroi wZLFkku j [krh gð I þuk vo/kkj .kk dksdbZ vflkxeka ds ek/; e I sLi "V fd; k x; k gð I þuk dh i e[k fo'kskrkvka dk o.ku djrsgg ; g Li "V gk tkrk gSfd I þuk I kj i wZrFkk mns; i wZgkrh gð bl ds NkV&NkV/s vákka dk Hh mi ; ks fd; k tk I drk gð bl sfofHku ek/; eka eai fjofr fd; k tk I drk gð ; g xfr'khy gkrh gð I þuk dk mri knu bruh nr xfr I sglsjgk gSfd I Ei wZmRi kfnr I þuk dk mi ; ks ugha gk I drkA bl izkj vf/kd ek=k eamRi knu] Hkk"kvka dh fofHkurk] I ð k/kuka dk vHkko vkfn , d sdkj d gð tks I þuk ds mi ; ks eavojkð ekus tkrsgð

2-12 Lo&tkp vH; kl

1. I þuk I svki D; k I e>rsgSA I þuk dh izfr dksLi "V djrsgg ml ds izkjka dh ppkZ djsA
2. I þuk ds I keftd i Hkko ij izk'k Mkfy, A
3. I þuk dsvojkð dks dks I sgSA
4. Mv/kcd , oaMv/kcd vflkxe dksfoLrkj I sl e>k; sA

Impact of New Technology½

- 3-0 Introduction½
- 3-1 Objectives½
- 3-2 Differential Impact of New Technology½
 - 3-2-1
 - 3-2-2 vko' ; drk
 - 3-2-3 uohu i kS kfxdh ds fofHkUu i Hkko
 - 3-2-4 xFky; ksa l puk i kS kfxdh dh mi ; kfxrk
 - 3-2-5 xFky; rFk l puk dlnka ij uohu i kS kfxdh dk i Hkko
- 3-3 Information Policies and Plans at the National & International Levels½
 - 3-3-1 l puk uhfr
 - 3-3-2 jk"Vh; , oavrkZVh; Lrj
 - 3-3-3 ojh; rk
- 3-4 State Authorities : Their Responsibilities & Functions½
- 3-5 Information System Design½
 - 3-5-1 vfHki k;
 - 3-5-2 fo' kskrk; a
 - 3-5-3 iz kkyh dsew rRo
 - 3-5-4 i qrdky; , oal puk iz kkyh
 - 3-5-5 iz kkyh fo' ysk.k
 - 3-5-6 iz kkyh vfHkdYi uk
- 3-6 International and Regional Cooperation and Assistance in Information System Planning½
 - 3-6-1 varjk"Vh; Lrj
 - 3-6-2 {ks=h; Lrj
- 3-7 UNISIST½
 - 3-7-1 vl; varjkZVh; xfrfof/k; ka
- 3-8 Let Us Sum Up½
- 3-9 Self Check Exercise½

3-0 fo"k; i oš k

I p u k I o k v k a d k i t o / k k u , o a v k / k f u d I e k t i j I p u k i k s j k f x d h d k i H k k o I k / k k j . k r ; k 0 ; k i d v k s j x g j k n k s u k a g a i r h d k a , o a I a d s r k a d k v a d : i . k I p u k i k s j k f x d h d s I H k h i z k s k a d k s j s k k a d r d j r k g s r F k k u , i z k s k a d s f y , I H k k o u k v k a d k s i f j o f r r d j r k g a b l H k k x e a I p u k m R i k n k a , o a I o k v k a d s v f H k d Y i , o a f o r j . k e a e n y i k B r F k k n j l p k j d s v a d : i . k d s i H k k o k a d k i j h { k . k f d ; k x ; k g a

3-1 m i š ; &

b l b d k b z e a i t d k y ; , o a i z y s k u r F k k I p u k d b a e k a } k j k i n U k I p u k I o k v k a d s f o f H k k u i z d k j k a d k f o g a k o y k s d u i L r r f d ; k x ; k g s b l b d k b z d s v / ; ; u d s i ' p k r v k i

- & I p u k I o k v k a d h i z - f r , o a b u d s d k ; k a d k s l e > I d a k a A
- & I p u k L = k r k a I p u k I a k / k u k a , o a I p u k I o k v k a d s e / ; v a r j d j i k ; a k a A
- & f d l h H k h o k r k o j . k e a I p u k I o k v k a d h l e L ; k v k a l s i f j f p r g k s l d a k a A
- & I p u k I o k v k a d h i t o / k k u i j I p u k i k s j k f x d h d s i H k k o d k s l e > i k ; a k a A

3-2 I p u k I o k v k a i j u o h u i k s j k f x d h d k i H k k o

o r e k u l e ; I p u k i k s j k f x d h d s ; o k d s u k e l s t k u k t k r k g a d e l ; W j d s v f o " d k j d s c k n I p u k i k s j k f x d h d k s f o d k l d k i ; k z e k u k t k u s y x k g a f d l h n s k d k f o d k l e q ; r % m l n s k d h v F k o ; o L F k k v k s j I p u k i k s j k f x d h i j f u H k j d j r k g a I p u k i k s j k f x d h n k s ' k c n k a l s f e y d j c u k g a I p u k i k s j k f x d h A I p u k d k r k R i ; Z g s r F ; K k u o t k u d k j h v k s j i k s j k f x d h d k v F k z g s o g r d u h d t k s l p u k d k s 0 ; o f L F k r d j I E i H k . k ; k k ; c u k r h g a v r % I p u k i k s j k f x d h o g r d u h d g s f t l d s } k j k g e I p u k d k s f o f H k k u i f o ; k v k a e a v k / k f u d i k s j k f x d h d k i z k s d j I p u k d s m i ; k s x v k s j v k o ' ; d r k d k s c < k l d r s g a

K k u d s f o L Q k s / v k s j I p u k I k e f x z k a d h c < r h g p z e k = k d k s l a f g r d j u k x b F k k y ; k a d s f y , g e s k k l s , d l e L ; k j g k g a i w z e a l k f g R ; d k i z k ' k u d e e k = k e a g y k d j r k ; k f t l s x b F k k y ; k a } k j k v k l k u h l s v k s j I f o / k k i w z l I a f g r f d ; k t k

I drk Fkk A ijUrqorÈku I e; ea xbfkky; ka }kjk dEI; Wj o I puk i kSj kfxdh dk mi ; kx dj fdl h Hkh I puk dksfo'o dsfdl h Hkh Hkx I sl æfgr dj i qikZr fd; k tk I drk gA

xbfkky; ka eal puk dsI æg i d kj.k o i qid kZr gsrqI puk i kSj kfxdh eadEI; Wj] b.VjuS/ uS/odI oMZ i kSj fl æ] xbfQDI vkfn i fof/k; ka dk iz kx fd; k tkrk gA buds }kjk I pukvka dk I d k/ku] I æg.k i qikZr , oai d kj.k gh I puk i kSj kfxdh dk Lo: i gA bl eal puk ds0; oLFkki u , oai fdz kdj.k djuseanksi æ[k I k/ku g& dEI; Wj rFkk I pkj rU=A vr%bueaiz Þr rduhd gh tksI puk izU/ku , oal Ei'k.k eaiz Þr gkrh gS I puk i kSj kfxdh dgh tkrh gA

3-2-1 i fjHkk"kk, a %&

+ I puk i kSj kfxdh dksfofHku fo}kuka us i fjHkk"kr fd; k gA dN egRoI .kz i fjHkk"kk, a bl izdkj g&

1- ,-, y-, - **xykl jh ds vuq kj %&** ^I puk rduhd I svk'k; I puk ds vf/ kxg.k] I æBu] I æg.k] i qikZr , oal Ei'k.k ea dEI; Wj , oavU; rduhdka dk iz kx djuk gA**

2- **ds/ ohgu , oamk; uk gked ds vuq kj %&** ^I puk rduhd I svk'k; I puk I æg.k , oavf/kxg.k I sl Ecf/kr rduhd dks i Lr q fd; s tkus gsrq iz Þr fd; k tkrk gA budsvlrxZr dbZvk/kfud rduhdats &dEI; Wj] nij I pkj vkSj ekbdks byDVkfuDI vkfn I fefyr gkrh gA

3- **eky ds vuq kj %&** ^dEI; Wj] nij I pkj , oae kbdks byDVkfuDI dk mi ; kx djrs gq I puk vf/kxg.k] Hk.Mkj.k , oal pkj dsfofHku I k/kuA**

4- **ostVj U; w , UI kbDyki hfM; k ds vuq kj %&** ^I puk i kSj kfxdh foHku rduhdka dk I a Þr in gSftI eafoHku rduhdka }kjk I puk ds I pkyu , oal LFkkukUrj.k dk dk; Zfd; k tkrk gS ek/; e ds : i ea dEI; Wj] nij I pkj rFkk ekbdks byDVkfuDI 'kkfey gA**

5- **jksyds vuđ kj %&** ^l ƣuk i ks| ksxdh dk vFkZ l ƣuk ds , d=hdj .k| l xg.k| l ƣkyu| iđ kj .k rFkk mi ; ksx l sgđ bl dk vk'k; gkMzş j vFkok l kQVoş j l s ugha gş cfYd bl rduhd ds }kjk ekuo dh egRo i wkZ vko' ; drk , oa fofHkUu l ƣukvadh i firZ l sgđ**

6- **ggkMl ykbcşj ; Ul XykI jh ds vuđ kj %&** ^l ƣuk i ks| ksxdh l ƣuk l ksks dk fodkl gş ft l s dEl ; Wj l ƣkj ek/ ; eka }kjk fu ; đ=r fd ; k tkrk gđ**

7- **; wđkdsvuđ kj %&** ^l ƣuk i ks| ksxdh l s vk'k ; , đ h i ks| ksxdh l s gS ft l eavfHk ; kđ=dh fo"k ; kđ rFkk i zU/k i ks| ksxdh dk iz ksx l ƣuk dsfu ; U=.k , oa l ƣkyu gşqfd ; k tkrk gđ dEl ; Wj , oa bl ds iz ksx l seutđ ; rFkk e'khu ea vUr l Ecl/k LFkfi r djrs gq l kekftd] vkfFkd , oal kđdfrd {ks=ka ea i xfr dh tk l drh gđ**

bl izdkj l ƣuk i ks| ksxdh , d , đ k in gS ft l dk iz ksx l ƣuk dh dEl ; Wj hđr] i fØ ; kdj .k| l xg.k , oal FkkukUrj .k l sl eđ/kr fdz kvka dks inf'kđ djus gşqfd ; k tkrk gđ l ƣuk i ks| ksxdh ea dEl ; Wj] byĐVrfud ek/ ; e l s/şykbV , oa l xg.k fof/k ; ka l fEefyr gksh gđ

l ƣuk i ks| ksxdh dk {ks= 0 ; ki d gS ; g , d , đ h rduhd gş ft l us vl EHko dks l EHko cuk fn ; k gđ ; g vi usea ek= i kBRRed gh ugha vfi rql đ ; kRed] n' ; kRed , oal x.kukRed i Lrfrdj .k dks l eš/s gq gđ

3-2-2 vko' ; drk %&

l ƣuk i ks| ksxdh oržeku l e ; dh vko' ; drk gS l ƣuk i ks| ksxdh dks vi uk ; sfcuk u rksge l gh izdkj l sl ƣuk dk l xg dj l drsgđ vkş u gh ml si qi iđr dj l drsgđ

xđFkky ; }kjk l ƣuk i ks| ksxdh dk mi ; ksx vk/kđud : i l s l ƣuk ds l xg.k o i kBdka dks vk/kđud o mPp rduhdh l đk ; ainku djus gşqfd ; k tkrk gđ xđFkky ; ka us l ƣuk i ks| ksxdh dk mi ; ksx dj l gh l e ; ij l gh l ƣuk mi yC/k dj k i kBdka ds l e ; dh cpr dh gđ

- xɔfɛkky; ka }kjk l ɔuk i kʃ kʃxdh dh vko'; drk fuEu i dɔkj l sg&
- ¼½ l ɔuk foLQkʃ l smRi lu l eL; kvka dsfujkdj .k grɔ
- ½½ l ɔuk dks; æsk i Buh; : i ea l æg grɔ
- ¾½ i kBdka dks vk/kɔud , oami ; ɔr l ɔo/kk; a i nku djus grɔ
- ¼½ i kBdka ds l e; dh cpr djus grɔ
- ½½ l ɔuk i kʃ kʃxdh }kjk xɔfɛkky; l ɔkvka dk 0; ki d : i l si d kj fd; k tk l drk gɔ
- ¾½ l ɔuk i kʃ kʃxdh dh l gk; rk l si kBdka dks v | ru l ɔuk i nku dh tk l drh gɔ
- ¼½ i kBdka dks; æsk i Buh; : i ea Hkh l ɔuk mi yC/k dj k; h tk l drh gɔ
- ¾½ l ɔuk i kʃ kʃxdh }kjk fo'o dsfd l h Hkh Hkkx l sfdl h Hkh xɛkky; , oa
l ɔuk dɔnz l s l ɔuk dk vknku&i nku fd; k tk l drk gɔ
- ¼½ i kBdka dks xɛkky; ea vk; sfcuk l ɔuk mi yC/k dj kbz tk l drh gɔ
- ¼0½ i kBdka dks i nku dh tk us okyh l ɔuk i d kj l ɔkʃ l ekf; d vɛkKku l ɔk dh
xqkoRrk ea of) dh tk l drh gɔ
- ¼1½ l ɔuk i kʃ kʃxdh l a k/ku l ghkkf xrk ea cgr l gk; d gks l drh gɔ
- ¼2½ xɛkky; , oa l ɔuk dɔnz ds dk; ka dks rhoz xfr l s l a lu fd; k tk l drk gɔ
- ¼3½ l ɔuk i kʃ kʃxdh {ks=h; jk"Vh; , oa v a r j k z Vh; Lrj ij us/odZ LFkfi r dj usea
l gk; d gks l drh gɔ
- ¼4½ l ɔuk i kʃ kʃxdh }kjk xɛkky; dh vuɔ l eL; kvka dk l ek/kku fd; k tk
l drk gɔ

3-2-3 uohu i kʃ kʃxdh ds foHku i Hko %&

- ¼½ dEI; Wj i kʃ kʃxdh %& l ɔuk i kʃ kʃxdh dk dEI; Wj ds {ks= ea egRoi wkZ
mi; ksx jgk gɔ dEI; Wj i kʃ kʃxdh i kʃ d j i kʃ kʃxdh l æg i kʃ kʃxdh vkʃ
l kQVoʃ j dk l eg gɔ tʃ & tʃ s dEI; Wj dk fodkl gksrk x; k l ɔuk i kʃ kʃxdh
dk {ks= Hkh 0; ki d gks usyxka i kjEHk ea dEI; Wj ea oD; ɛ V; ɔ gksrsgɔ i jUrqi h<h
nj i h<h fodkl ds ckn budk LFkku vkbz l h- rFkk ekbdks i kʃ d j us ys fy; k
oržeku ea dEI; Wj dk iz ksx fpi dk iz ksx gksrk gɔ dEI; Wj ds fodkl ds l kFk
bl dh l æg {kerk ea Hkh of) gksrk x; h vkt vufxur l ɔukvka dk l ekoʃk , d
gh dEI; Wj ea fd; k tk l drk gɔ

1/2 1 puk uš/odZ& I puk i kš| kšxdh dk I cl siæ[k mi ; kx I puk uš/odZ ds {kš= eægA oržeku ea I puk uš/odZ us I Ei wkzfo' o dks, d y?kq: i inku dj jk"Vka dh ijLij nřij ; kadksyxHkx I ekřr dj fn; k gA vkt I Ei wkzfo' o I puk uš/odZ I sbl izdkj tMk gšfd I puk dsvknku inku vks I puk i pi kZr eafd I h Hkh izdkj dh vl řo/kk ughagksř gA bl dk; ZgřqdEl; Wj vks nj I pkj mi dj .kka dksmi ; kx fd; k tkrk gA I puk uš/odZ useuř; dh dk; Zkerk dksc<kelj ml s rhozřr inku dh gš; g I Hkh I puk i kš| kšxdh ds }kj k gh I Hko gřk gA

1/3 1/2 nj I pkj %& I puk i kš| kšxdh dk ni jk iæ[k mi ; kx nj I pkj ds {kš= eanj I pkj ifdz k ea I puk dksfo | ř p[cdh; rjæka dsek/; e I s, d LFkku I snř js LFkku ij Hkstk tkrk gA ; g dk; Zcgř gh rhozřr I sfd; k tkrk gA nj I pkj useuř; ds thou eadkřrdkj h cnyko fd, gA nj I pkj eanj h dkbZek; us ugha j [krh gA oržeku eanj I pkj ds {kš= eārhozřr I sfodkl gksjgk gA nj I pkj ea I ŠykbV , d egřoi wkz Hkředk fuHkřsgš budsek/; e I sgh I puk dk iř kj .k , d LFkku I snř js LFkku rd fcuk fd I h 0; o/kku ds gks I drk gA bu I ŠykbV ea VřH I kšMj cšM gksřsgš tk I puk dk I Ei k.k dks I jy o I řo/kktud cukřs gA vkt nj I pkj dk I ř<+gksk jk"V" dsfodkl dk | křd ekuk tkrk gA oržeku eanj I pkj ds {kš= ea tk fodkl gksjgk gšog I puk i kš| kšxdh ds }kj k gh I Hko gřk gA

1/4 1/2 ekbdksřQh %& ekbdksřQh ds vřxř I puk dksvud ek/; eka%ekbdksQYe] ekbdksQ'kj fQYe] fLVř] jhy vkfn 1/2 ea I ře : i ea I řfgr fd; k tk I drk gš vks vko' ; drk vuř kj ml si pi kZr fd; k tk I drk gA bl izkkyh ea xřkky; ds vl ř; i yř[kka dks ; æsk i Buh; : i ea Hkh I řfgr fd; k tk I drk gA bl ds ek/; e I s I puk dks I řfer LFkku ea I řfgr fd; k tk I drk gA I puk dks i kj Ei fjd Lo: i 1/4 řrd 1/2 ds vřřj Dr byĐVřfud dsek/; e ea Hkh i křr fd; k tk I drk gA ; fn ni js' kČnka eadgk tk; sfd oržeku I ekt i ř j řfgr gks' k tk jgk gš rks; g vřr' ; kšDr ughagksřkA oržeku eafo' odkš kj 'kČndks kj I křgR; vkfn dk izdk'ku Qykw[h] I hMh&jke vkfn eafd; k tk usyxk gA , d 12 I seh vřdkj dh

I hMh ea 1500 Qykw/h vFkok 21]00]000 i "Bka dks l ekof'kr fd; k tk l drk gA
orZeku ea xFkky; ka dks vc byDVrfud ykbcjh dk : i fn; k tk jgk gsftl ea
l puk dks ; æsk i Buh; : i ea l æfgr fd; k tk l drk gA

1/5½ byDVrfud xFkky; % vkt l Ei wZfo'o eabyDVrfud xFkky; ij fujarj
'kksk , oafodkl fd; k tk jgk gA fo'o ds dN fodfl r jk"Vka ea byDVrfud
ykbcjh us dk; Z djuk Hkh i kjEHk dj fn; k gA Hkjr ea Hkh bl vkg fujarj 'kksk
, oafodkl tkjh gA bl idkj ds xFkky; ea l puk dks ; æsk i Buh; : i ea
l æfgr fd; k tkrk gs vkg ; g xDFkky; vku ykbZ l fo/kk inku djrh ftl l s
l puk dks us/odZdsek/; e l svku ykbZ i kr fd; k tk l drk gA ; g l Hkh dk; Z
l puk i kSj kfxdh ds 0; ki d mi ; kx o fujarj fodkl l sgh l Hko gks l drk gA

3-2-4 xFkky; ka ea l puk i kSj kfxdh dh mi ; kfxrk %

xFkky; , oal puk dntka ea l puk i kSj kfxdh dk mi ; kx l puk l æg , oai qi kZlr
ds fy, fd; k tkrk gA bl dks vi ukdj fofHku dk; ka vkg l okvka ea rhork vkg
, d: irk ykbZ tk l drh gA l puk i kSj kfxdh ds mi ; kx l s &

1/4½ xDFkky; dfeZka }kj k fd; s tk jgs dk; ka ea rhork ykbZ tk l drh gA

1/2½ depkfj ; ka , oami ; kx drkZ dk l e; cpk; k tk l drk gA

**1/3½ Hkfo"; dh vko' ; drk ds vuq i vka dMka dks fo'ys"kr fd; k tk l drh
gA**

1/4½ vfHkxe ds l eLr i {kka l si nH xbZ l puk, a'kh?krk l si kr dh tk l drh gA

1/5½ xDFkky; dh fofo/k xrfrof/k; ka ea mRi kndrk dks c<k; k tk l drk gA

1/6½ xDFkky; , oal puk xrfrof/k; ka dEI; Wjhdj .k dsek/; e l sn{krk ea vfHkof) dh
tk l drh gA

3-2-5 xDFkky; rFk l puk dntka ij l puk i kSj kfxdh dk i Hko %

dEI; Wj , oanij l pkj i kSj kfxdh ea gq uohure ifjorZka ds QyLo: i
xDFkky; ka dh enyHkr & ij Ei jkxr dk; ka , oal okvka ea dKQh ifjorZu vk; k gA xDFkky; ka
}kj k fd; s tk usokys dk; Z tS & xDFkp; u] vokflr] l phdj .k] iy[ku l ok] l anHkZ l ok
vkfn ea cgr vf/kd l e; yxrk Fkka ftu xDFkky; ka , oal puk dntka us l puk
i kSj kfxdh dks vi uk; k gSogka l puk dks i k Bdka rd i gpkusea foyEc ugha gks ka /khj &

/khjs I p̄uk i k̄s̄ k̄s̄xdh dks x̄b̄fk̄ky; ka }jkk vi uk; k tk jgk gS vk̄s̄ bl ds ifj.kke Hkh I keusvk jgsḡAA or̄ēku ea x̄b̄fk̄ky; , oal p̄uk d̄b̄nka dk , d̄ k d̄kb̄zdk; ZvFkok foHkkx ughagS t̄gkabl dk i Hkko u gk̄A bl ds i Hkko dks foHkklu foHkkxka ds dk; k̄ā , oal d̄kvka ea ns̄[kk tk I drk ḡA dEI; Wj ds }jkk dz ifdz k fof/k] i w̄z vk̄n̄s̄k [kkst ūs̄ vk̄n̄s̄k i klr djūs̄ x̄b̄fk̄ ifjxg.k vk̄s̄ ifronu r̄s̄ kj djus ea I gk; rk feyrh ḡA bu dk; k̄ā dks I Eilu djusgr̄qdEI; Wj eavyx&vyx Qkby r̄s̄ kj dj yh tkrh ḡA ftul sx̄b̄fk̄ vf/ kxg.k ds dk; k̄ā dk I f̄o/kki w̄z̄l rhork I sfd; k tk I drk ḡA

1/2½ I p̄hdj .k& x̄b̄fk̄ky; , oal p̄uk d̄b̄nz ea dEI; Wj dh I gk; rk I sl p̄hdj .k ds dk; Z dks 'kh?krk I sfd; k tk I drk ḡA bl ds fy, Hkh vko'; drku d̄ kj ekLVj Qkby vu p̄ef.kdk Qkby vkfn r̄s̄ kj dh tkrh ḡA

1/3½ I kef; d fu; U=.k& I p̄uk i k̄s̄ k̄s̄xdh dks mi ; k̄s̄ ea ykdj i =& i f=d̄kvka dks vf/kxg.k ij Hkh fu; æ.k fd; k tk I drk ḡA bl ds ek/; e I suohu I ekf; dh i z̄k'kkuka dsp; u] dz vk̄n̄s̄ ku] Hk̄x̄rku] Lej .k& i = Hk̄st us vkfn foHkklu dk; k̄ā ea I gk; rk feyrh ḡA bu dk; k̄ā gr̄qHkh dEI; Wj ea foHkklu i z̄kj dh Qkby r̄s̄ kj dh tkrh ḡA

1/4½ x̄b̄fk̄ vk̄nku&i nku& dEI; Wj ckj d̄k̄M vk̄s̄ bl ds I k̄w̄Vōs̄ j dh I gk; rk I s x̄b̄fk̄ vk̄nku&i nku dk dk; Z I f̄o/kki w̄z̄l 'kh?krk I sfd; k tk I drk ḡA

1/5½ I p̄uk I d̄k & x̄b̄fk̄ky; ka , oal p̄uk d̄b̄nks }jkk mi yC/k dj; s tkusokyh foHkklu I d̄kvka t̄s̄ & I n̄Hkz I d̄k] I p̄uk [kkst I d̄k] I kj k̄ā kh̄dj .k , oavup̄ē .kh̄dj .k I d̄k] I ekf; d vfHkKrk I d̄k] p; fur i d̄ kj I d̄k vkfn ea I p̄uk i k̄s̄ k̄s̄xdh mi ; k̄s̄x gk̄srh ḡA vk̄w̄ykb̄z̄u ij x̄b̄fk̄ bufi d̄ dh mi yC/krk us foHkklu i k̄f̄lrdj .k I d̄kvka dh {kerk ea of) dh ḡA ekbd̄ks i k̄ d̄ j ds mi ; k̄s̄ I sfl LVe , oa Qkby i k̄ d̄ j ds chp I ēdk LFkfi r̄ fd; k tkrk ḡA bl dh I gk; rk I subz I d̄kvka ds fy, I f̄o/kk tud [kkst {kerk, a i klr gk̄srh ḡA

xɔfky; , oal pɔk dɔnka ds ɔzɔk ea l pɔk i ks kɔxdh dk i kko dk Qh
vf/kd vuɔko fd; k tk jgk gɔ l a k/kd mi dj .kka , oaVsyhdKUQBU ɔ iz kfy; ka ds i fr
l pɔk dɔnka dk : >ku nɛ[kk tk l drk gɔ buVju/ dsvuq; kx l xɔfky; , oal pɔk
dɔnka dh l wɔk , avf/kd l q; ofLFkr , oavkl ku gksxbzgɔ bl i dzkj vk/kɔud i ks kɔxdh
xɔfky; ka , oal pɔk dɔnka dks vuɔd , d smi dj .k mi yC/k dj; sgɔ tks mi ; kxdrkz/ka
dks nh tkusokyh l ɔkvka ea l ɔkkj ds mudsy; dks i klr djusea l gk; d gɔ

3-3 I pɔk ufr , oa ; kst uk %jk"Vh; , oavɔjkzVh; Lrj ij

3-3-1 I pɔk ufr

fofɔku dk; ɔ) fr; kɔ l ɔBu , oa 0; oLFk] l pkyu , oa l ɔkvka dks uohu
oKkfud nɛ"Vdks k l sfodfl r djus grq , d l a ɔfBr ufr dh vko' ; drk gksh gɔ
orɔku ea i R; d {ks= ea l pɔk dsegRo dks nɛ[krsgq bl ds l eqpr fodkl grqft l ufr
dk fu/kk].k fd; k tk jgk gɔ og l pɔk ufr dgykrh gɔ fofɔku {ks=ka , oal ewka ea tks
0; fDr l pɔk fdz kdyki ka ea l ɔxu gɔ muds fy; s l pɔk ufr dk vɔki k; rFk vɔz
fɔku&fɔku gɔ bl dk dkj .k ; g gɔfd mudh l pɔk l ɔzkh vko' ; drk fɔku&fɔku gksh
gɔ vɔj ml h ds vuq i l pɔk vɔj ufr dh vo/kkj .kk rFk {ks= fu/kk] r fd; k tkrk gɔ

xɔfky; , oal pɔk 0; ol kf; ; ka ds fy , l pɔk ufr ds fofɔku i dzkj ds
i ɔ[kkavɔj mueafufgr l pɔkvka l s l ɔ/kr gksh gɔ fofɔku i dzkj ds i ɔ[kkavɔj ds l ɔg.k
i fdz kdj .k vɔj mudk l a ɔk.k mi ; kDrkvka ds e/; bl i dzkj fd; k tkuk l ɔuf'pr
fd; k tk; sfd mudh ekɔ vɔj vko' ; drk dh i frZgks l ds bl dk; Zea l g; kx ds fy ,
mi ; ɔr l pɔk ufr vko' ; d gɔ

fofɔku {ks=kae adk; j r vuɔ dkkudrkz/ka , oafO}r l epk; ds fy , l pɔk
ufr dh vo/kkj .kk fofO/k i dzkj ds MKVkl l pɔk] l Ei ɔk.k vɔj l ɔk] l s l ɔ/kr gksh gɔ
mudsv/; ; u {ks= l s l ɔ/kr fofO/k l ankkɔvɔj Lo: i kaemi yC/k l pɔk ml gai klr gka

dEl; wj vɔj nj l ɔk] ds {ks= l s l ɔ/kr dk feɔd l pɔk ufr dh vo/kkj .kk dks
MKVkl i fdz kdj .k] gkMɔs j] l kQVos j fodkl] l ɔk] .k vɔj l ɔk] us/odZ vkfn ds
fo' ksk l ankkZeakursgɔ tks 0; fDr tu l ɔk] l stɔ/sqg gɔ mudk l e>uk gɔfd l pɔk
ufr ds vɔzɔr tul keku; grq l pɔk dk , d=hdj .k] fo'yɔk.k vɔj i dzkj .k vɔj

'kkl dh; fudk; ka rFkk vU; I kekUk I hFkkvka }kj k tksI p uk mRi kfnr dh tkrh gSmudk
Lora= vfHkxe tu I kekU; dks i klr djuk gA

bl izdkj I p uk uhfr dh vo/kkj .kk fHkUu&fHkUu 0; fDr; k; 0; ol kf; ; ka
vFkok I eqnk; ka dsfy, mudh I p uk vo'; drk ds vuq kj vyx&vyx gks I drh gA
fdUr qokLrfod ,oami ; Dr tur= ds fodkl vks I Qyrk dsfy, I p uk I pkj dsek/
; e I stu I eq dks I kekf; d fdz; kdyki ka vks jktu srd] vkfFkd] I kekf t d] 'kSkf.kd]
oSkkfud vks vks] kSxd vkfn I svoxr djkus gsrqI p uk uhfr egRoi wkZekuh tkrh gA

3-3-2 jk"Vh; ,oavrkZVh; Lrj %&

i qrdky; ,oal p uk I okvka ds fodkl eajk"Vh; rFkk varjkZVh; Lrj ij
LFkfi r fofHkUk izdkj ds I akk; I xBu; I hFkkvk; I p uk iz kky; ka vks I p uk d b nka dk
vi uk fo'kSk egRo gA f}rh; fo'o; q; ds i' pkr-foKku rFkk rdudh vks vks] kSxdj .k
dks I exz fodkl dks , d vko'; d igywekudj uohure oSkkfud I p uk vka I s
vuq akkudrkZ/ka vks fo'kSkKka dks I qj fpr djkus gsrqI p uk ds I Ei k.k vks i z kj dks
vfr vko'; d ekuk tkusy xka bl ds i fj.kkeLo: i jk"Vh; vks vUrjkZVh; Lrj ij
i y[ku d b nka ,oal p uk d b nka dh LFkki uk gsrq iz kl fd; k tkusy xka orZeku eavudka
vUrjkZVh; vks jk"Vh; I xBu] I p uk d b n z ,oai z kky; ka I LFkfi r gA tksi qrdky; ,oa
I p uk I okvka ds mlu; u] I ello; vks fodkl ea I g; kx dj jgs gA buea 'kkl dh;
I xBuka ds I kFk&I kFk d n LoSPNd I hFk, aHkh I fEefyr gA orZeku I p uk ifjn'; ea
; s I Hkh I xBu vi usfofo/k fdz; kdyki ka ,oal okvka dsek/; e I sjk"Vh; vks varjkZVh;
Lrj ij vi uk egRoi wkZ LFkku cuk, gq gA

egRoi wkZ vUrjkZVh; I xBuka tS s& ; wL dks ; whf I LV] vUrjkZVh; I p uk
iz kky; ka tS s& bful] ,fxl] jk"Vh; I xBuka tS & ; wth I h vks vkj-vkj-vkj- ,y-
, Q] Hkkj rh; jk"V^a foKku ,oavks] kSxd I p uk iz kkyh vks Hkkj r ds jk"Vh; i y[k i kSk.k
d b n z tS & fuLd s j] ukl MKk] M s hMKk] vkfn dk i qrdky; ,oal p uk I okvka ds
fodkl ,oamlu; u ea fo'kSk ; kx nku jgk gA

varjkZVh; I xBu%

varjkZVh; xFkkRed fu; =.kj Kku vks I p uk ds I Ei k.k rFkk I gHkkf xrk
dks i kRl kfgr djus dh nF"V I si qrdky; ,oal p uk ds {k= eavUrjkZVh; I xBuka dh

ipjrk gA ; sI xBu vi usI nL; jk"Vka dsI kFk ijLij I g; ksx djrs gq uohu I puk fopkjka vls vutkoka dk fofue; djrs gAbueaI sdN I xBu I eLr jk"Vka dsI kFk ijLij I g; ksx djrs gq uohu I puk fopkjka vls vutkoka dk fofue; djrs gA bueaI sdN I xBu I eLr jk"Vka dsy kHk grqvius dk; Zæ dk I koBkksed : i I sI Ei Bk.k djrs gA dN varjkZVh; I xBu tS & , Q-vkbZVh- , d ijuk I xBu gSftI dh LFkki uk dk i jkHkd mnns; I koBkksed xFkRed fu; æ.k , oa xFkRed fØ; kdyki ka ea I gk; d fl) gksosokyh xrfof/k; ka dks i kRl kgr rFk I eflor djuk FkA v'kkl dh; Lrj ij vud I xBuka dh xrfof/k; ka rFk dk; Zæka dks I eflor djus ds fy; s , Q-vkbZVh- I okRe jk"Vh; , tAl ; ka eaI s, d gA bl h J[kyk eabQyk Hkh v'kkl dh; I ækka dk , d Loræ varjkZVh; egkl æk , oaI xBu gSbl dk eq; y{; i qrdky; , oaI puk I okvka ds fdz kdyki ka ds I Hkh {ks=ka ds fodkl } Kku , oaI puk I g; ksx rFk vud ækku dks i kRl kgr djuk gSA dN fo'k"V I æk tS & d'k i qrdky; , oaI yS[ku varjkZVh; I æk] varjkZVh; i qrdky; I æk vls varjkZVh; rdudh fo'ofok; i qrdky; I æk vkfn i eq[k gA ; sI Hkh I xBu , oaI æk varjkZVh; I g; ksx fofue; , oa vutkoka dk I xg.k djrs gA vls ijLij , d nI js dksy kHkflor djus dk iz kl djrs gA ; sI æk I e; & I e; ij I æks"B; kI I Eesy vls dk; Z kkykva dk vk; kstu djrs gA ftI eavi us I nL; jk"Vka dks vkef=r djrs gA fofok izdkj ds izdk'ku fudyrs gA vls I e; & I e; ij I g; ksx] I ykg vls ekxh'ku nrs gA nI jh vls vU; I xBu tS & ; wkdka ¼; ukbVM usku , tpsku I kDfQd , .M dYpj vkkZukbZtsku½ vkfn gA tks vi us I nL; jk"Vka dks i qrdky; , oaI puk I okvka ds fodkl vls i xfr grqiR; {k , oaI jkSk : i ea I gk; rk mi yC/k djrs gA ftI ds varxZ rdudh I gk; rk i f'k{k.k ekuuhdj.k dEI; Wj , oaI puk i kS] kfxdh ds vuqz, ksx ea I gk; rk , oa vU; fofok izdkj dh {ks=h; i fj; kstuvka dk I pkyu djrs gA

jk"Vh; I xBu%&

jk"Vh; Lrj ij Hkh i qrdky; , oaI puk I okvka ds fodkl grqvud i yS[ku dlnka , oaI puk dlnka dh LFkki uk dh xbzgS tks i yS[k rFk I puk I okvka ds vk; kstu eavi uh egRoii .kZHkiedk dk fuokg dj jgs gA bueaI sdN I keU; , oa0; ki d i yS[ku I okvka dk vk; kstu djrs gA vls dN fo'k"V fo"K; {ks=ka dh I okvka dh0; oLFk djrs gA

i æ[k i y[ku d ðnz &

- 1- fuLdş j&** (NISCAIR) National Insitute of Science Communication and Information Resources.
- 2- Mİ HMKM&**(DESIDOC) Defence Scientific Information and Documenteation Centre.
- 3- I sMMKM&** (SENDOC) Small Enterprises National Documenteation Centre.
- 4- ukl MKM&**(NASSDOC) National Social Science Documenteation Centre.
- 5- ckdZ ykbcjh , .M bUQYeşku I foZ**
- 6- uşkuy eSMfl u ykbcjh**
- 7- bā.M; u , xtdYpj fjI pZbLHV; W ykbcjh , oaiy[ku I şk**
- 8- iVŞV , oalVSMMA , oaiy[ku I şk**

mi jkDr i y[ku , oal p uk I ş k I æBuka ds vfrfjDr Hkkjr eamPp f' k{kk ds {ks= ea egkfo | ky; , oaf o' ofo | ky; i qrdky; ka ds fodkl , oamlu; u eafo' ofo | ky; vuŋku vk; ks ¼ wth- l h-½ l koZtfud , oavl; fo f' k"V i qrdky; v[ş I p uk I ş k d ðnz ml u; u ea jktkj keeku jk; i qrdky; i fr" Bku Hkfedk v[ş fdz kdyki fo' ksk I jkguh; gā

3-3-3 ojh; rk %&

I p uk ds egRo , oavko' ; drk rFkk bl dk fodkl xgu I Ecu/k gksus ds QyLo: i I p uk iz kj , oal ş k iz kkfy; ka ea tksfodkl gvk gSmI dk I p uk vFkz kkl= ds {ks= ea Hkh i Hkko i Mtk gS ifj. kker% I p uk I ş kvka I s I æā/kr fo fHku vfhkdj. kka ftuea xBFkky; , oal p uk d ðnz Hkh I feefyr gā I Hkh dks vk/kfud I p uk I ş k rFkk 0; oLFkk ds ifj i[; ea, dh dj. k djus dh vko' ; drk vuŋko dh xbā ftI I al p uk vko' ; drkvka ds i æ[k fdz kdyki ka ds {ks= ea , d I q æfBr jk"Vh; I p uk iz kkyh LFkfi r dh tk I dā

; gkage I p uk vFkz kkl= ds I æā ea I p uk ds fo" k; ea tc foopuk djrs gā rks i krs gāfd xBFkky; ka , oal p uk d ðnz rFkk I p uk iz kkfy; ka ds vŋrxr , d egRo i wkz i {k I p uk iz cu/ku gS tks vFkz kkl= I s I æā/kr gS v[ş ml ds vŋrxr xBFkky;] I p uk i) fr; kav[ş I ş kvka dh 0; ki drk dks Li"V djrk gā bl dk egRo i wkz i Hkko ; g gSfd ; sctV dks I keku; fLFkfr ds vŋrxr Hkh fu; ā=r djrk gā xBFkky; , oal p uk d ðnka

dh foRr 0; oLFkk muds }kjk l apr /ku ds vUrxZ dh tkrh gS tksfofHku l pUk l oK, a mi yC/k dj kusdh nF"V l sl eApr ughagk r k ft l ds QyLo: i mRre l pUk l oK, ain ku dj usea l eL; k mRi uu gksh gA xBFkky; ka, oal pUk dlnkadk l pkyu tks i S'd l xBu djrs gA mudk Hkh mRrjnkf; Ro curk gS vr% l pUk iz kky; ka, oal oKvka ds vrxZ l pUk ds vFkz kL= dks/; ku eaj [krs gq mi ; p r l oKvka dh 0; k[; k dh tkuh vko'; d gA

xBFkky; l oKvka ds vUrxZ l koZt fud xBFkky; vFkz kL= ds l anHZ ea l koZt fud oLrq l e>h tkrh gSD; kAd muds }kjk mi yC/k dj kbZ tkusokyh l oKvka dk mi Hkks ijk l ekt djrk gA bu l oKvka dk mRrjnkf; Ro 'kkl u dk gksh gS bl fy, 'kkl u i wkZ vFkok vkf' kd vuqku mi yC/k djkrk gA vk/kfud ifjofrZ l pUk l anHZ ea l koZt fud xBFkky; ka dks Hkh vi uh l oK, Wcktkj ds nF"V dksk l sfoRrh; oRoka dks /; ku eaj [krs gq l yHk djkuh pfg, A

fof'k"V xBFkky; ka, oal pUk dlnkadk dh 0; oLFkk muds i S'd l LFkkuka }kjk vi uh l pUk vko'; drkvka ds vuq i dh tkrh gA foRrh; l eL; kvka ds nF"V xr j [krs gq vi uh ckS) d l pUk vka ds fodkl }kjk os vkfFkZ l q<rk dk iz kl dj jgs gA

i qrdky; ka, oal pUk dlnka }kjk dbZ izdkj dh l oK, ain ku dh tkrh gA bu l oKvka dks rhork l smi yC/k dj kusea l pUk i kS) kSxdh dh Hkfedk l jkguh; gA vr% bu l oKvka fo'kSk: i l s, l -Mh-vkbZ l h-, -, l -] vuqde.khdj.k l kjdj.k fji dStax vkfn dks mi yC/k djkrsl e; vkfFkZ nF"V dksk dks Hkh /; ku eaj [kk tkuk vko'; d gA

3-4 jkT; i kf/kdj.k %mRrjnkf; Ro , oadk; Z %&

'kkl u dks l pUk dk mRi kend vks mi HkksDrk nksukagh : i ka ea ekuk x; k gA 'kkl u ds vrxZ foHku i zdkj dseaky;] foHkx] vk; kx] l febr; kadk; Z djrh gA buds }kjk ea ky; ka l s l a/kr fdz kdyki k] vk; kxka ds ifronu] foHkxh; ifronu l febr; ka dh dk; bkgk vkfn dk izdk'ku fd; k tkrk gS ft l l s dk Qh l pUk l kfgR; egROI wkZ vks 'kkski j [k ekuk tkrk gSA 'kkl u ds f0; kdyki k] ; kst ukvka vkfn ds fy; s egROI wkZ l pUk vka dh fujarj vko'; drk Hkh gksh gS vr% muds fy; s l pUk vka dk l xg.k vks i jh{k.k Hkh fd; k tkrk gSA l pUk ds mRi knu l xg.k i qi kZ l vks l a Bk.k

'kkl u dks Hkh fu; fer dk; kã vksj I ðkvka ds 0; oLFkki u gsrq I pũk i ks| kfxdh dk vuqj z ksx vko'; d gks x; k gA

Hkkjr ea fofHkUu 'kkl dh; foHkkxka dks I pũk vf/kxe mi yC/k djkus dh nf"V I s1977 ea uSkuy bUQjefVd I Wj uS/odZLFkki r fd; k x; k ft I dk mnas; ns k ea I Hkh 'kkl dh; foHkkxka dks , d I kFk I Ec) djuk gS bl ds varxZr pkj {ks=h; dUtkal eLr jkT; kavksj dUtz 'kfl rka ins kka vksj ftyk eq; ky; dks tkW/k x; k A bl ds }kjk dbZMS/kcd kadks r\$ kj fd; k x; k bl ds }kjk y\$kk , oactV fu; kstu] vk; kr&fu; kZ ty , oafI pkbzxteh.k fodkl y?kq | ksx olfudh] i fjogu] i ; W/u] LokLF;] mt kZ f' k{kk} rFkk izdk vkfn I s I cã/kr I pũkvka dk I Ei \$k.k fd; k x; kA

3-5 I pũk izkkyh vfhkdYi%&

3-5-1 vfhki k; &

izkkyh 'kcn dh mRi fRr xhd 'kcn I s gøZgSft I dk vFkZgSfofHkUu dk; Z bdkbz ka eamfpr rkyey LFkki r djukA I keku; r%fd I h I eku mnas; dsfy, , d I kFk I fefyr : i I s dk; Z dj jgs ?kVdkã oLrã/ka vFkok fofHkUu Hkkxka ds I eng dks izkkyh ds: i ea tkuk tkrk gA mnkgj .kkFk& I pũk izkkyh] nji I pkj izkkyh] mRi knu izkkyh] dEl; Wj izkkyh vkfnA

izkkyh dks i fjHkkf"kr djrs gq ey: i I s dgk tk I drk gSfd izkkyh fofHké vUrZ EcfU/kr rRoka I sfeydj cuk , d I eng gStks , d fu; kstr rjhds I si wZ fuf'pr mnas; ka dh ifr dh fn'kk ea dk; Z djrh gA ; gka rRoka I s rKRi ; Z fofHkUu Hkkf rd i nkFkã I s gSt\$ & e'khu] I kexh vksj depkjh vkfnA

fdl h izkkyh dh vo/kkj .kk dsfy; sfuEu rhu ckrka dk gksuk vo'; d g&

- 1- izkkyh dk fuekZk i wZu/kkZjr mnas; ka dks i klr djus dsfy; scuk; k x; k gksuk pfg, A
- 2- izkkyh ds fofHkUu rRoka ea i wZ I kætL; dk gksuk vko'; d gA
- 3- fdl h izkkyh ds mnas; ka dks ml dh mi izkkyh ds mnas; ka I svf/kd i kFkfedrk nh tkrh gA

3-5-2 fo'k'krk, a%

I Hkh iz kkfy; ka ea fuEufyf[kr fo'k'krk, a gkrh g&

¼½ I αBu (Organization)&

I αBu I srkRi; Z iz kkyh ds < kps vFkok I j p u k I s g S t k s f o f H k U u m n n s ; k a d h i k f l r e a l g k ; d g k r k g S t S & f d l h i q r d k y ; i z k k y h I s l α B u e a l c l s Å i j i q r d k y ; k / ; { k r R i ' p k r m i i q r d k y ; k / ; { k l g k ; d i q r d k y ; k / ; { k j i q r d k y ; I g k ; d , o a v U ; f y f i d o x L v k r k g A b l i z d k j d s o x h z d j . k I s i z k k y h , o a m i & i z k k y h d s v l r z E c / k a d h j p u k g k r h g A b l h i z d k j d E I ; W j i z k k y h d k H k h m n k g j . k f y ; k t k I d r k g A f t l e a , d d l n h ; i k l s l α ; f i u V] e k a u h V j] d h c k M] e k m l o , d ; k v f / k d H k . M k j . k b d k b z g k r h g A t c b u I c d k a , d I k F k t k M / k t k r k g S r k s ; s l c f e y d j , d i z k k y h d k d k ; Z d j r s g A v k j I p u k m i y C / k d j r s g A

½½ ijLij I αk (Interaction)&

ijLij I αk d k r k R i ; Z m l 0 ; o g k j I s g S f t l I s i R ; d r R o , o a i z k k y h d k s v U ; r R o k a d s l k F k I α k c u k d j d k ; Z d j r k g S t S & f d l h I α B u e a d z f o H k k x d k m R i k n u f o H k k x I s l α k g k s u k p k f g , f o K k i u f o H k k x d k f o d z f o H k k x d s l k F k r F k k e t n j h d k d e p k f j ; k a d s l k F k I α k g k s u k p k f g , A d E I ; W j i z k k y h e a d l n h ; i k l s l α ; f i u V d s b u i V ; f i u V k a I s l α k c u k ; s j [k u k p k f g , f t l I s l e L ; k d k I e k / k u f d ; k t k I d A

½½ vU-%uHk]rk (Inter dependence)&

vU-%uHk]rk d k f d l h i z k k y h e a r k R i ; Z ; g g S f d I α B u i q r d k y ; , o a l p u k d l n z v F k o k d E I ; W j i z k k f y ; k a d s f o f H k U u k f o H k k x , d n i j s i j f u H k j g S ; s l H k h f o H k k x , d f u ; k s t u } k j k v k i l e a t M / s g k r s g A , d m i i z k k y h d k ; Z d j u s d s f y , n i j h m i i z k k y h i j v k f J r g k r s g A

¼½ I ekdyu (Intrigation)&

I ekdyu I srkRi; Z ; g g S f d i z k k y h d s f o f H k U u f o H k k x v k i l e a t M / s j g d j i u f ' p r m n n s ; k a d k s i k l r d j r s g A n i j s ' k C n k a e a d g k t k I d r k g S f d i R ; d

Hkkx ijLij feydj fdl h dk; Z dks djrs gār Fkk I kFk gh I kFk og Lora : i I s
Hkh fof'k"V dk; Z dks vatke nrs gā

1/5½ dlnh; mnās; (Central Objective)&

fdl h Hkh izkkyh dh vāre fo'kSkrrk ml dk dlnh; mnās; gā

3-5-3 izkkyh dsew rRo&

fdl h izkkyh ds i qfuzēkZ k dsfy, fuEufyf[kr rRoka dk gksuk vko'; d

g& 1- vkxe vkj fuxē&

fdl h Hkh izkkyh dk eq; mnās; , d izdkj dk vkmViϕ mRiUu djuk gksrk gS
tks ml izkkyh ds mi; kxdrkZ dsfy, mi; kxh gā bl vkmViϕ dk Lo: i &
inkFkZ I fo/kk vFkok I ok, a; k I puk inku djuk vkfn gks I drk gā blga
mi; kxdrkZ dh vko'; drk ds vuq kj cuk; k tkuk pfg, A vkmViϕ dksuf'pr
djus ds fy, igys buiϕ dk fu/kkZ.k fd; k tkrk gā mnkgj.kkFk& izkkyh
fo'ySkd og 0; fDr gS tks iwZ izkkyh ij fu; æ.k j [krk gā og I oZ Fke ; g irk
yxrk gS fd mi; kxdrkZ dh vko'; drk D; k gā rRi'pkr-vkxe vkj fuxē
ifdz k dks i jk djrk gā

1/2½ ifdz k, a&

fofHkUu ifdz k, aog rRo gS tks fdl h vkxe dks fuxē dsl æk eai fjoFr r djrh
gā ; s ifdz k, a fdl h izkkyh dk dk; Z khy Hkkx gā vkmViϕ dh vko'; drk ds
vuq kj ; s ifdz k, a buiϕ dks vkā'kd vFkok iwZ i I s i fjoFr r dj nrh gā

1/3½ fu; æ.k&

fu; æ.k rRo izkkyh dksfn'kk inku djrk gS; g fdl h izkkyh dh mi izkkyh gS
tks izkkyh dsl eLr dk; k tS & buiϕ fdz kvks vkj vkmViϕ ij vko'; drk uq kj
fu; æ.k j [krh gā fdl h i qrdky; , oal puk dlnz ds I nHkZ ea i qrdky; v/
; {k@ I puk oSkfud , d fu; æ.k bdkbZ ds: i eavkxe] nS[kjS[k ifdz k , oavU;
fofHkUu fdz k dyki ka ij fu; æ.k j [krs gā rkfd i qrdky; @ I puk dlnz dk
fodkl gks I dā

1/4 1/2 QhMcSd&

fdl h izkkyh eafofHkUu ifdz kvka vks fu; æ.k ds }kjk fu/kkZjr vkmVi v/ iklr
 fd; k tk l drk gA bl vkmVi v/ dksfu/kkZjr eki n.M ds vrxr v/; ; u djds
 QhMcSd iklr fd; k tk l drk gsvks blgha iklr QhMcSd ds vk/kkj ij ifdz kvka
 dk bui v/ eafifjorU dj l akk/kr vkmVi v/ dks iklr fd; k tk l drk gsvFkok
 vkmVi v/ dsLrj eal qkj yk; k tk l drk gA ; g QhMcSd vupny gks l drk gS
 vFkok ifrdny A

1/5 1/2 okrkoj .k&

okrkoj .k og mi izkkyh gS ft l ds vrxr dkbZ l lFkk dk; Zdjrh gS; g izkkyh
 i Hkko Mkyusokyk okg; rF; gSokLro ea; g fuf' pr djrk gS izkkyh dks dS
 dk; Zdjuk pkfg, A

1/6 1/2 l hek, a , oavUr% adk&

l hek, a , oavUr% adk izkkyh dh l hek, a igys l s gh fuf' pr gkuh pkfg, A ; s
 l hek, a izkkyh ds rRokj ifdz kvka , oavUr% adkka dh ni jh izkkyh ds l kFk 0; k[; k
 djrk gA iR; d izkkyh dh l hek, ags tks bl dsfu; æ.k dks i Hkfor djrh gA

3-5-4 i qrdky; , oal puk izkkyh &

i qrdky; , oal puk izkkyh eavud mi izkky; ka l feefyr gS i qrdky;
 , oal puk dbnz dsegROI wZfdz kdyki tS & vf/kxg.k] oxtidj .k] l phdj .k] l kekf; dh
 fu; H=.k] vknku&inku] l puk l xg.k , oai qizlir izkkl u , oafu; æ.k vkfnA ; sl Hkh
 fdz kdyki i qrdky; , oal puk izkkyh ds vx ekus tksr gA ; sl Hkh mi izkky; ka
 vFkok vx i qrdky; , oal puk dbnz ds eny/Hkar mnns; ka dks iklr djus dh fn'kk ea
 ijLij feydj dk; ZdjrgA ; smi izkky; ka vyx&vyx gksrsgg Hkh , d ni js ij
 vkfJr rFkk ijLij l ad/kr gsrh gA

3-5-5 izkkyh fo'yšk.k &

izkkyh dks iHkkoh cukus ds fy, fo'yšk.k dh vko'; drk gkrh gS A
ggkYM cksdkz us izkkyh fo'yšk.k dks ifjHkkf"kr djrs gq dgk gSfd izkkyh fo'yšk.k
, d tfVy ifdz k vFkok l xBu ds ijhf{k.k dh , d vks pkfjd ifdz k gS tk bl ds
?kVdkard l hfer dj nrh gā , oabu Hkkxka dks , d nli js l svkš eq; bdkbz l sl exz
: i l s

l Ecf/kr dj nrk gā

izkkyh ijhf{k.k dsvarxZr , df=r dh xbzgS, oavl; l eLr iLrqr dh xbz
l pukvka dk fo'yšk.k djds oržku izkkyh dk rFkk uohu fodfl r dh tkus okyh
izkkyh dk fo'yšk.k fd; k tkrk gS A tš & ; fn fdl h iqrcky; dks dEl; WjhdR
djuk gS rks, d u; h izkkyh dsvfHkdYi u grqfo'yšk.k vko'; d gSbl dsvarxZr l eku
: i l sfuEufy [kr rRo fo'yš"kr fd, tkrsg&

- 1- mi ; kxdrkz/ka dh l puk vko'; drkvka dk fo'yšk.kA
- 2- izkkyh mi HkkDrk l LFkku dk iwZ fo'yšk.kA
- 3- ipfyr izkkyh dk iwZ fo'yšk.kA
- 4- iLrkfor izkkyh dk iwZ fo'yšk.kA
- 5- gkMbz j@l kDVoš j vko'; drk dk fo'yšk.kA

mi jkDr l eLr fo'yšk.kka ds fy, 0; ogkfjd v/; ; u fj i kšZ dk mi ; kx fd; k
tkrk gSvkš vko'; drk iMeus ij vl; l k/kuka dk Hkh mi ; kx fd; k tk l drk gā

3-5-6 izkkyh vfHkdYi u &

izkkyh vfHkdYi u l srkRi ; ZokLrfod ifdz k dsfodkl l sgSft l l sfd
izkkyh dk fuekZk gkrk gā izkkyh fo'yšk.k l s iklr rF; ka ds vk/kkj ij izkkyh
vfHkdYi u grqiWZ izkkyh ds xqk vkš nkskka dks Kkr fd; k tkrk gSvkš ifjorZu grq
vko'; d l qko Hkh iklr fd, tkrsgā iwZ-% l UrqV gkdj ubz izkkyh dk vfHkdYi u
fd; k tkrk gā

izkkyh vfHkdYi u eafuEufyf [kr rF; ka ij fo'kš /; ku nsuk vko'; d g&
¼½ ifjofrZr , oa uohu vko'; drkvka ds ifjiž; ea izkkyh ds mnas; ka dh l eh{k
djuk vko'; d gā

1/2½ ubZ izkkyh ds vfhkdYiu ea yxusokyh ykxr dks Hkh /; ku eaj [kuk vko' ; d gA ykxr i {k nks vk/kjka ij nš [kk tkrk gA igyk izkkyh ea 0; ; gksusokyh iz kku i th vksj nli jk ml ds ipkyu ea vuojr vkusokyk 0; ; A ubZ vFkok I á kks/ kr izkkyh dh LFkki uk ea vkfFkd i {k ij fo' ksk /; ku fn; k tkuk pkfg, A

1/3½ oržku izkkyh ea i R; d fuxž ij gksusokys 0; ; dh rnyuk ea I á kks/kr vFkok uohu izkkyh dsifr bdkbZ 0; ; dk eki n.M egRo iw kZ Hkfedk fuHkkrk gA

izkkyh vfhkdYiu ds pj.k&

izkkyh vfhkdYiu ea I kekl; r% fuEufyf [kr pkj pj.k I fEefyr g&

1/4½ i Fke pj.k&

bl pj.k ea izkkyh ds I eLr dk; ká dks i u%fu; kš tr fd; k tkrk gšft I I smuea ij Lij I ello; LFkfi r fd; k tk I dA ig kuh odZ khV ds LFkku ij uohu odZ khV rš kj dh tkrh gšbl ea I á kks/kr y {; ka ds vuq i vko' ; d I á kks/ku dks I fEefyr fd; k tkrk gA

1/2½ f}rh; pj.k&

vfhkdYiu ds f}rh; pj.k ea I eLr fdz, kvka dks fy [kk tkrk gšvksj blga, d rkdZd dæ eafolr r : i I siZnr fd; k tkrk gšvko' ; drkuq kj Qyks pkVZ cuk; k tkrk gš foj.k rFkk Qyks pkVZ dks, d I kfk feyk dj dk; fof/kd fu; ekoyh cukbZ tkrh gA

1/3½ r`rh; pj.k&

izkkyh vfhkdYiu ds bl pj.k ea mi ; D r dk; fof/kd fu; ekoyh o izkkyh dks Hkyh izkj I e>usdsfy, vko' ; d gšbl I sLopfy r izkkyh dh fn'kk ea i <usds fy, I pukvka dks fuošk ds : i ea, df=r djus rFkk : i ká=r djuse ea I gk; rk i klr dh tkrh gA

¼½ prfKzpj.k&

; g pj.k efnr Lo: i dsvfHkdYi u l sl æf/kr gkrk gA bl dk mi ; ksx l p ukvka
dksl æfgr djus, oai ð kfjr djusdsfy, fd; k tkrk gA ; g /; ku Hkh j [kk tkrk
gSfd l p ukvka dh i p jkofRr u gksl dA

3-6 varjkzVh;] {ks=h; Lrj ij l p uk izkkyh dk l g; ks&

3-6-1 varjkzVh; Lrj

¼½ bful (INIS)&

vUrjkzVh; Lrj ij i y[ku , oal p uk dsfdz kdyki ka eab. Vjus kuy U; fDY; j
buQke ð ku fl LVe ft l s l æki ea bful dsuke l s tkuk tkrk gSfo[; kr , oa
ykd fiz; l p uk izkkyh gA i jek.kq 'k fDr ds 'kkfUri wkZ mi ; kska ij mi yC/k
l kfgR; dsfnuksfnu c<fsgg egRo dks/; ku eaj [krs gq l a p r jk"Vª l æk dh
vUrjkzVh; i jek.kq'k fDr , tBl h usvi ð **1970** eavkfLVª, k flFkr fo; uk eabful
dh LFkki uk dhA bful l k/kj.kr; k , d fe'ku izkku l p uk l ok gSA ft l ea
vk.kfod foKku rFkk i ks| kfxdh dk l Ei wkZ {ks= vkrk gA bful dh LFkki uk ds i wZ
vk.kfod foKku , oai ks| kfxdh dh vUrjkzVh; l p uk izkkyh dk vHkko Fkk vr%
bful bl {ks= ea vUrjkzVh; Lrj dh l p uk izkkyh FkhA

½½ , fxd (AGRIS)

vkt fo'o ead f" k , d vR; Ur egRoi wkZ m | ksx ekuk tkrk gSft l ij fo'o ds
l okZ/kd euq; ka dk thou fuHkZ djrk gSvkSj bl hfy, vkt d f" k foKku , d , ð k
0; ki d cgqk; keh rFkk vUrfoZk; h fo" k; dk : i /kkj.k dj pdk gSft l ea vud
foKkuka, oaf" k; ka dks Hkh l fEefyr fd; k tk pdk gA d f" kfoKku , oam l ds vud ð
kku dk segRoi wkZ ekursgg , d vUrjkzVh; d f" kfoKku , oai ks| kfxdh l p uk izkkyh
dh LFkki uk l a p r jk"Vª dh , d , tBl h , Q-, -vks us **1970** eadh Fkh ft l sbl ds
l æk l r uke , fxd dsuke l svf/kd tkuk tkrk gA

1/3 1/2 fuLI kr (NISSAT)&

foKku , oai kSj kfxdh ds {ks= ea nsk eajk"Vh; I pūk izkkyh ds: i eafuLI kr dh LFkki uk **1975** ea nsk ea mi yC/k I pūk I d k/kukj izkky; ka , oal d kvka dks vkuRfjd , oai jLifjd <æ l s l Ec) djus dsfy, dh xbz FkhA iwz i l s; g ; kstuk **1977** I sikjEHk gks l dh Fkh tksHkkjr dsfoKku , oai kSj kfxdh foHkx ds vUrxzr gPz FkhA

3-7 ; fufl LV&

; fufl LV oKkfud , oai kSj kfxdh; I pūk ds {ks= ea; wL dka dh , d vUrxk"Vh; I gdkjh ; kstuk gA bu {ks=kaea l pūk dh I ghkfxrk gA bl sfo'o foKku I pūk izkkyh dsuke l stkuk tkrk gA bl dk eq; y{; fo'o dh I pūk I febr; ka , oal d k/kukadk vfHkxe inku djuk rFkk ml izkkyh dks i kRl kfgr djuk gSft l l s l Hkh I kefxz ka dks , d l kFk l Ec) fd; k tk l dA

; whfl LV dsmnAŠ ; &

- 1/4 1/2 fo'o ds oKkfudka eafcuk fdl h vojksk ds izdkf'kr oKkfud I pūk rFkk vk/kkj & l kefxz ka dk fofue; I Ei lUu djukA
- 1/2 1/2 foKku , oai kSj kfxdh ds {ks= rFkk vud i eq k fo"ka dk fofu/krk eaxtark vksj I keUtL; LFkfi r djukA
- 1/3 1/2 vuq i rk dks i kRl kfgr djukA
- 1/4 1/2 I pūk izkky; ka eai kjLifjd : i l s l g; kxkRed vuqU/k rFkk izdkf'kr I pūk fofu; e djukA
- 1/5 1/2 fofue; rFkk ijLifjd vknku& inku dks l fo/kktud cukusdh n"V I si kfof/kd ekudka dk fodkl djuk rFkk vuq {k.k djukA
- 1/6 1/2 I Hkh nskka eai f'kf {kr ekuo I d k/ku , oal pūk ds l d k/kukadk fodkl djukA
- 1/7 1/2 I pūk , oal pūk ds i dkg] i d kj rFkk I Ei k.k ea iz kkl fud , oavkSj kfxd vojksk rFkk ck/kkvka dks de djukA

1/8 1/2 ftu ns kka dks or ðku , oa Hkkoh foKku dh I p̄uk I ðkvkad h vko' ; drk gkrh gS ftUga , ð h I gk; rk inku djukA

; wufi LV dsdk; ðæ&

1/4 1/2 i ðrdky; fooj .kka dk ekudhdj .k ; U=sk i Buh; i ðrdky; vk/kkj & I kefxz ka dsvR; kf/kd mi ; ksx , oa i pyu dsdkj .k bl {ks= ea ekudhdj .k vfr vko' ; d gksx; k gSbl hfy , ; wufi LV dsdk; ðæka ea x ðFkkRed fooj .kka dsekudhdj .k ds fdz kdyki ka dks vf/kd ojh; rk inku dh tkrh gA ; wufi LV rFkk bDI wus , d MRQV eð; wpy r\$ kj fd; k gS tksf }rh; d I p̄uk I ðkvkad h vko' ; drkvkad h i firz grq fufeð dh xbZ gS bl dk fuekZk dEI; wj vk/kkfjr iz kkyf; ka ea i kjLi fd fofue; dsfy , ekU; , oa Lohdr x ðFkkRed fooj .k rRokadsvuq kj fd; k x; k gA bl ds fuekZk dk nkf; Ro bUI i ð dksfn; k x; k gA

1/2 1/2 /kjkokfgdlarFk I kjlkdj .k , oavuðef.kdj .k I kef; fd; kadk fu; U= .k& I p̄uk rFkk i yçku I ðk dsvk; kst u eafo' o ea i ðkf' kr I kef; fd; kadsfu; U= .k dh 0; oLFkk vfr vko' ; d ekuh xbZ gA vr% dEI; wj vk/kkfjr M\$ k iz kkyh dh LFkki uk ; wufi LV dsLo: i rFkk dk; ð) fr dsv/khu dh xbZ gSft I sbUVju\$ kuy I hfj; YI M\$ k fl Lve dgrsgA ; g , d vUrjkZVh; I æBu gA ; g iz kkyh jk"Vh; rFkk {ks=h; d ðnkads , d us/odZds: i eadk; j r gSft I dk I ello; u vUrjkZVh; d ðnz }kjk fd; k tkrk gA

1/8 1/2 ; U=sk i Buh; jftLVj&

foKku , oa i k\$ kfxdh ds {ks= eabl dk , d vUrjk"Vh; jftLVj i kjfeHkd 25000 if=dkvka ij vk/kkfjr gSft I sbl iz kkyh ds vUrjk"Vh; d ðnz }kjk foKku , oa i k\$ kfxdh ds i k p̄ i Buh; M\$ k I feefyr dj r\$ kj fd; k x; k gA bc ; g vUrjk"Vh; jftLVj dseny Lo: i dk dk; Zdjrk gA bl dka I Hkh us/odZ d ðnk I s I p̄uk i klr gkrh gA

1/4 1/2 ; wufi LV x ðFkkRed fooj .k dk vUrjkZVh; d ðn&

; w ð dks I svuqU/k dsvk/kkj ij ; wufcM dh LFkki uk fcfV' k ykbcj h }kjk dh xbZ gA ; g ; wufi LV ds I keU; vo/kkj .kkRed rFkk fdz kRed Lo: i , oa: i jçkk ij vk/kkfjr gA uhr; kadso" k; ea ekxh' kZu grqi kf/kdj .k ds: i eabl s; w ð dks ds

1/5½ ijke'kzk; h rFk l Ei dz fdz; kdyki &

vujkðk djusij bl dðnz }kjk vud izdkj dsmi ; kxh ijke'kz inku fd; stkrð
gð rFkk ; fuekdZ ds l ñHkZ ea vkj-, e- dh mi ; kðxrk dk Hkh egRo l e>k; k tkrk
gð vkj-, e-dk l ðkksku] foLrkj mi ; kx grq i kðl kgu fujUrj inku djus dk
iz kl tkjh gð

1/6½ 0; ki d oxhðj.k iz kkyh&

; fufl LV ds i æ[k dk; ðeka ea vUrj & l Ec) rk iz kkyh ds nñ"V l s, d
0; ki d oxhðj.k iz kkyh gð i p f yr oxhðj.k ; kst ukvka ea i ; klr fHkUurk gksus ds
dkj.k bl oxhðj.k dh vo/kkj.kk dk vkfoHkko gqvk gð bl dk mnas ; l p uk
LFkkukarj.k i fdz k ea vud oxhðj.k i) fr; ka vksj 'kCn rkfydkvka dks l Ec)
djus dh ; ðr inku dj jgk gð l k/kkj.k vuðef.kdkdj.k dsfy; s; g iz kkyh
, d ; ðr gSft l l s l p uk dks LFkkukarfjr djusea l fo/kk gkrh gð

1/7½ jk'Vh; oðkfud , tðul ; k&

bl ds dk; ðe mnas ; ka ds vrðr i R; d ns k ea oðkfud l p uk , tðul ; ka dh
LFkki uk ij tkj fn; k x; k gð 1974 eagq i sj l l Eesyu dk e[; fo" k; jk'Vh;
l p uk iz kkyh ds vo/kkj.kk ij fopkj djuk jgk gð

1/8½ vk/kkj l efxz; kads l dyu ea vUrj kZVh; iz kl &

vkt ds; qk ea vuð ðkku , oafodkl dsfy, Mð/kcð kads vfr vko' ; d gSl p uk
ds: i ea vuðko fd; k x; k gð ; ut dks vUrj kZ; h; l x BukabQyk] fQM vkfn l s
Hkh bl fn'kk ea l gk; rk i klr djrk jgk gð ft l l svUrj kZVh; us/odz dh LFkki uk
gks l dð vr%vUrj kZVh; Lrj ij Mð/k ds l xg rFkk i l kj ij /; ku fn; k x; k gð

1/9½ gSMcð rFkk eð; qy dk fuekZk&

l p uk l okvka ds {ks= ea fodkl 'khy , oa fodfl r ns kka ds e/; tks njih , oa
vl Uryu gSml dka de djus dh nñ"V l s; utfl LV ds i pe dk; ðe mnas ; ds
vUrðr fo'kðk l gk; rk i klr djus dk l dyi gSvr%fodkl 'khy ns kka dsfy,

oKkfud l p̄uk rFkk izys[ka l o kvka dk , d ogn gSMc̄d i Fke iz kl ds: i ea
fu; k̄str fd; k x; k ḡA oKkfud rFkk ifof/kd l p̄uk ds mi ; k̄sdrk̄z/kads
f'k{k.k , oa i f'k{k.k gr̄qHkh eB; q̄y r̄\$ kj fd; k x; k ḡA

3-7-1 vU; vUrkZVh; xfrfof/k; k&

1934 eai fj"kn-us^vxZukbt'sku QKW blUvyDpq y dksvki j'sku vK̄D nh ykx vK̄D
uS̄kU l ** dsl kFk viuk l c̄zk LFkfi r fd; k FkA yfdu 1939 eaf}rh; fo'o ; q̄ dsdkj .k
bl l ECU/k ck/kk, agks x; h̄A ; w̄k.dks ds l kFk 1947 ea , d vK̄s p̄kfjd vuç̄zk fd; k x; kA

1966 eai fj"kn~dh 11 oha l keku; l Hkk dh c̄Bd c̄EcbZ eal EiUu gp̄Zft l ea
iēç̄k l ar̄qr ; g dh x; h fd , d l fevr dk xBu vUrkZVh; foKku l p̄uk izkkyh dh
l Hkkouk dksuf'pr djus dsfy, fd; k x; kA ifj.kker% ifj"kn~, oa ; w̄k.dka dh , d
l a q̄r l fevr vUrkZVh; l p̄uk izkkyh dh LFkki uk gr̄qxfBr dh xBA

3-8 l kjk̄k

bl bdkbZ eal p̄uk l o kvka dk , d l f̄k̄lr ifjn' ; iLr̄q djus dk iz kl fd; k
x; k ḡSA l kFk gh fofHkUu izdkj dh l p̄uk l o kvka dk o.k̄u djus ds i w̄Z l p̄uk l k̄r l a k/
ku , oal o kvka t̄\$ si nk̄dk foopu , oamudschp varj Li "V fd; k x; k ḡSA l p̄uk l a k/
ku , d , dh—r djusokyh ; æ j̄puk ḡS, oal p̄uk mi ; k̄sdrk̄z/kads l kFk l p̄uk L=k̄rka
dksyxkrkj , d l kFk yr̄rh ḡSA bl dsvykok ; fufl LV dsfo"k; eal e>k; k x; k ḡS, oa
vUrkZVh; , oa {k̄s-h; Lrj ij l p̄uk izkkyh ds dk; k̄a dh 0; k[; k dh xBZ ḡSA

3-9 Lo&tkp vH; kl

- 1-l p̄uk l o kvka ij l p̄kj i k̄S k̄sxdh eagq su; sfodkl ka dk D; k i Hkko i Mk ḡS bl dh
0; k[; k djaA
- 2-; fufl LV ij fuc̄zk fyf[k; sA

Module 8 : Information Management and Policies at National & International Level

- 4-0 Introduction
- 4-1 Objectives
- 4-2 Information Management and Policies at National & International Level
- 4-3 National Information Policies
- 4-4 The Information Society : Conceptions and Critique
 - 4-4-1 The Information Society
 - 4-4-2 Information Security
 - 4-4-3 Information Privacy and Information Rights
 - 4-4-4 Information Literacy : Concepts and Importance
- 4-5 Let Us Sum Up
- 4-6 Self Check Exercise

4-0 fo"k; i dš k&

vkt ds; q eal p̄uk dks, d l 'kDr l k/ku , oaoLrqekuk x; k gSA jk"V^a
dsfodkl dsfy; s, oacgeq[kh i xfr eavud̄ ōkku dk ; kxnku vf}rh; gsvkš vud̄ ōkku
dh vk/kkj'kyk l p̄uk gh gSfo'o dsl Hkh fodfl r &fodkl 'khy nš kkaeavud̄ ōkku , oa
fodkl dksjk"Vh; i xfr dk vk/kkj ekuk tk jgk gSA vud̄ ōkku , oafodkl dsdk; ZrHkh
l Qy gkaxatc xŋkky; , oal p̄uk l ōk izkky; ka dh l ō; oLFkk gksA tksolrqr%jk"Vh;
l p̄uk izkkyh , oaxŋkky; uhr; kaij vR; f/kd fuHkj djrk gSftl izdkj xŋkky; ka ds
fodkl dsfy; s xŋkky; vf/kfu; e ije vko'; d gS ml h izdkj l okŋke l p̄uk , oa
xŋkky; l ōk rFkk l p̄uk ds izdkj gsrqbl l sl æā/kr uhr dk Hkh gksuk vko'; d gS A
bu l cdk v/; ; u ge bl bdkbz eadjaA

4-1 mīš; &

bl bdkbz ds v/; ; u dk mīš; l p̄uk dk iHkko l ekt dsfofHkku {ks=ka
eā i qrdky; ka eā l p̄uk dāka rFkk jk"Vh; l p̄uk uhr xŋkky; ka l si Mf k gSA bl bdkbz
dsek/; e l svki fuEu rF; ka l si jfpr gsl dākaA

& l p̄uk izdkj dsfy; s jk"Vh; l p̄uk uhr dk fu/kkj.k vko'; d gS ftl dk
l q cdk gksuk pkfg; sA

& bl dsfy; sl jdkj dksfu; e , oavf/kfu; e cukus pkfg; s , oamudks ykxwfd; k
tkuk pkfg; sA

4-2 jk"Vh; , oavajk"Vh; Lrj ij l p̄uk izdk , oahr&

fofy; e ts ekfVU ds vud̄ kj ^ l p̄uk mRi kn vks̄ i fdz k nksuka gš vud̄
mnāš; ka dh i firzdk l k/ku vks̄ Lo; aea, d l k/; Hkh gā** l p̄uk , d i fj?kVuk ds: i
eaHkh i fjyf{kr gkrh gSftl dk l keftd l ka dfrd] vkfFkd rFkk i ks] kšxdh; 'kDr; ka
dsl kFk i kjLifjd iHkko vud̄ ifjorūka dks tle nsjgk gā l ekt eal p̄uk vnHkr
'kDr] jktuhrd 'kDr dk irhd vks̄ vkfFkd l ef) dk vk/kkj cu xbZgā l ekt ds
iR; d {ks= ea ifjorū dk iæq[dkjd l p̄uk i ks] kšxdh gā ; g , s k midj.k gS

ftl dh l gk; rk l sde l sde l e; ea l p u k d k L F k k u k U r j . k j f j d k f M a k] l f { k l r h d j . k
v k s j i d k j . k f d ; k t k l d r k g a v r % l p u k i k s j k s x d h l e k t d s f o f H k U u { k s = k a d k s
v k o ' ; d : i l s i H k k f o r d j j g h g a ; g k a g e d i n , d s g h f o f ' k " V l k e k f t d , o a v k f F k d
{ k s = k a d h f o o p u k d j a k s t k s l p u k i k s j k s x d h d s e g R o i w k z i H k k f o r ? k V d d s : i e a l e > s
t k r s g a ; s { k s = f u E u g a

1/4 1/2 f' k { k k & l e k t e a e k u o d s 0 ; f D r R o d k l o k a h z k f o d k l d j u k g h f' k { k k d k
e d ; m n n s ; j g k g s f' k { k k o g i f d z k g s f t l d s v a r x r c k s) d { k e r k v k a d k s f o d f l r
d j u s g r q v / ; ; u v k s j l h [k u s d e k / ; e l s l k e k U ; v k s j f o f ' k " V K k u d k s v f t r f d ; k
t k r k g a f' k { k k v k s p k f j d : i l s ' k s { k d l a F k k v k a } k j k f o f H k U l r j k a d k i n R r d h t k r h
g s v k s j v k s p k f j d f' k { k k c k s) d l a F k k v k a l s c k g j j g d j i k l r d h t k r h g a l k e k U ; r %
v k s p k f j d f' k { k k x b F k k y ; i j d s U n r g k r h g a e k u o l e k t e a f' k { k k d h o f) v k s j
f o d k l f u j r j v k s j v t h o u p y u s o k y h i f d z k g a

v / ; ; u v k s j v / ; k i u i R ; d i d k j d h ' k s { k d l a F k k v k a d s i z e d k d k ; Z g k r s g a
f' k { k . k d s v a r x r f o f H k U l r j i j l k e k U ; v k s j f o f ' k " V f o " k ; k a d k s f' k { k . k i n k u d j u s g r q
f o f H k U l = k s = k a v k s j m i d j . k k a d k m i ; k s x f d ; k t k r k g a m P p f' k { k d s l a F k k u k a } k j k v u d a
k k u v k s j f o d k l l s l a f / k r f d z k d y k i k a d s e k / ; e l s u o h u K k u d k l ' t u f d ; k t k r k g a

l p u k i k s j k s x d h u s f' k { k k d s { k s = e a i d s k d j u o h u f' k { k . k i f d z k v k a e a u ; s
v k ; k e L F k k f i r f d ; s g a f o f H k U i d k j d s l k / k u v k s j b y D V k f u d m i d j . k m i y C / k
d j k ; s x ; s g a f t u d k s m i ; k s x l s d k b z H k h v i u h b f P N r l p u k ; k K k u i k l r d j l d r k
g a d E l ; w j L o f' k { k k i s d s t d s e k / ; e l s b f P N r K k u i k l r f d ; k t k l d r k g a f o f H k U
f o " k ; k a i j o h f M ; k a , o a v k l M ; k a d s s / t] V s y h f o t u u s / o d z } k j k v / ; ; u i f d z k d k s
f o | k y ; d s L F k k u i j i R ; d d s ? k j L F k k f i r d j f n ; k x ; k g a f' k { k k d s { k s = e a n i j r F k k
e d ; f' k { k k i z k k y h u s t u l k e k U ; g r q f' k f { k r i f' k f { k r g k u s d s f y , , d v k s j u ; k e k x z
[k k s y f n ; k g a b l { k s = e a n i j L F k f' k { k k d s v a r x r e d r f o | k y ; k a v k s j e d r f o ' o f o | k y ; k a
d h L F k k i u k d j f' k { k k d k s i R ; d d s } k j r d i g p k f n ; k g a l p u k i k s j k s x d h n i j L F k
f' k { k k d s { k s = e a v i u h i H k k o h H k f i e d k f u H k k j g h g a

1/2 1/2 'kksk , oafodkl &

vk/kfud ; x ea l kekftd vksj vkfFkd fodkl dh ifdz k ea 'kksk dk fo'kSk egRo gSA l ekt vksj jk"V^adh ixfr dks 'kksk dsifj .kkeka }kjk igpkuk tkrk gS D; kAd l ekt dh eny l eL; kvka dk l ek/kku 'kkskdk; ka }kjk fd; k tkrk gSA ; g oSkfud 'kksk , d 0; ofLFkr rFkk l fu; kstr ifdz k gsftl ds }kjk ekuoh; Kku ea of) vksj fodkl fd; k tkrk gA oSkfud l eL; kvka ds l ek/kku dh , d iHko'kkyh fof/k gA

eSdxFk rFkk okVI u us 'kksk dh , d 0; ki d ifjHk"kk nh g& ^ kksk , d ifdz k gsftl ea [kst ifof/k dk iz lxx fd; k tkrk gS ftl dsfu"d"kk dh mi ; kSxrk gkS Kku of) dh tk,] ixfr dsfy, iHl kfgR djS l ekt dsfy, l gk; d gks rFkk euq; dks vksj vf/kd iHko'kkyh cuk l dA bl izdkj&

1/4 1/2 'kksk dh ifdz k l suohu Kku dh of) dk fodkl fd; k tkrk gS

1/2 1/2 l keku; fu; eka rFkk fl) kUrks ds ifriknu ij cy fn; k tkrk gS

1/3 1/2 'kksk dh ifdz k oSkfud] 0; ofLFkr vksj l fu; kstr gksrh gS

1/4 1/2 bl eafo'ol uh; rFkk oS] ifof/k; ka dks iz, qR fd; k tkrk gS

1/5 1/2 ; g rkfdZ rFkk oLrfu"B ifdz k gS

1/6 1/2 'kksk ifdz k earF; ka, oainRka ds vk/kkj ij ifjdYi ukvka dh i"V dh tkrh gS

1/7 1/2 iR; d 'kkskdk; Z l s fu"d"Kz fudkys tkrS gS mudk l keku; hdj .k dj ifriknu fd; k tkrk gA

bl izdkj 'kksk dHh u l ekr gksosokyh l rr pfdZ ifdz k gA uohu l puk vksj Kku ds l tu vksj mRi knu grq l fu; kstr <x l s'kksk vksj fodkl dsfdz k&dyki pyk, tk jgsgA orZeku eaLo; adsykhk vksj l ekt dsmi ; lxx grquohu Kku ds l tu ea'kkl u vksj l koZtfud vksj kSxd l xBu bdkbZ ka/ku dk fuosk dj jgh gA l keku; r%ekSyd 'kkskdk; Z 'kSkf.kd l h.Fkkuka , oafO}r l xBuka }kjk fd; s tk jgs gS vksj 0; kogkfjd 'kksk ftudsek/; e l sfofo/k izdkj dh l eL; kvka dk l ek/kku fd; k tkrk gS mudk l pkyu] 'kkl u vksj 0; fDrxr vksj kSxd bdkbZ ka }kjk fd; k tk jgk gA vk/kfud 'kksk ifdz k ea l qkkj] u, &u, mi dj .kka dsmi ; lxx l puk rduhdh] mPp Lrjh; xBFkky; iys[ku vksj l puk l okvka rFkk ; kx; vksj vuHkoh fo"K; fo'kSkKka , oa 'kkskdrkZ/ka ds l g; lxx ds QyLo; i vc 'kksk ea xqkRed l qkkj gpyk gA bl h ds QyLo; i vkt iR; d {ks= ea l Qyrki dZ 'kksk vksj fodkl l sfdz kdyki l pkfyr gS vksj xqkRed mi ; lxx Kku dk mRi knu dj jgs gS tksfdl h l ekt vksj jk"V^adh l Qyrk dsfy, vko' ; d gA

1/3½ **tul pjk** & tul pjk dk vfkZgS l pjk vks fopkjkadk i l kj o l pjk ds vk/kfud l k/kuka }kjk eukjat u inku djuka tul pjk ds vlrXr byDVkfud vks fi BV nksuks gh ek/; e vkrs gS A l pjk ds ijEi jkxr l k/ku vk/kfud l ekt dh ifjofrZr ifjLFkfr; ka dh vko' ; drkva dks i wkZ djus ea vl efkZ jgs gA bl hfy, rhozfr l s l pjk&l Ei Zk.k ds dk; Z dks l Ei lu djus gsrq l pjk ds u, &u, ek/; eka dh [kst gsrh jgh gS vks gksjgh gA tu l pjk ea l pjk dk vHkr i wZ i Hkko gS ; fn l pjk u gks rks l l kj dk dk bZ vl rRo , oa egRo ugha gkskA

tul pjk ea l ekpkj&i=] if=dk, j jSM; kS Vsyhfotu] foKki u] fQYe vkfn egROI wkZ Hkfedk fuHkrs gA l ekpkj&i= m |ks ftl ds vlrXr nsud] l krfkd] i kf{k d vks ekf l d vkfn vkrs gS ; s l Hkh l ekpkj l dyu] l Eiknu] mRi knu vks fooj.k gsrq l pjk i kS] kSxdh dh ifj"dr vk/kfudre fof/k; ka dks iz, ks ea ykrs gA byDVkfud ek/; eka ds vlrXr jSM; ks vks Vsyhfotu l pjk i l kj.k ek/; e vkt jktu s rd vks vkfkd 'kfDr dsegROI wkZ vks 'kfDr' kkyh l k/ku ekustkrsgA tul pjk dsek/; eka dk i ed[k dk; Zeukjat u] fofHku ?kVukva, oafdz, k&dyki ka dh l pjk] l ekt ds l koZt fud fgrka dks fofHku l mHkka es i Lrj djuk vkfn gA fo'o Lrj ij ; g , d i Hkko h mi dj.k gA fofHku if'peh ns kka us i Hkko LFkfi r djus dh nf"V l s jSM; ka vks Vsyhfotu dk us odZ fodfl r dj fn; k gS ftl dk fodfl r ns k ykHk mBk jgs gA fodkl 'khy ns kka vks Hkkrh; Vsyhfotu us , f'k; u vks Hkkrh; Vsyhfotu us odZ LFkfi r dj l ekpkj] l eh{kk} eukjat u vks vl; tul keku; ds dk; Z eka dk i l kj.k vkjEHk dj fn; k gA l pjk vks l pjk tXr eavks mlur cukus dh fn'kk eafodkl 'khy ns kka }kjk iz kl fd, tk jgs gS A

1/4½ **0; ki kj , oa m | ks %&** vkfkd fodkl ds {ks= ea 0; ki kfj d , oa vks} kSxd i fr"Bkuka dk >qlko vi us m | ks ka vks mRi knuka dks vk/kfudre Lo: i inku djus dh nf"V l s l n b gh u, &u, mi dj.kk ; H=ka L=ks ka vks i fof/k; ka dh vks jgk gS mudk mnas ; bl ds i hNsvf/kdre ykHk vftZr djuk vks vks} kSxd {ks= ea vi us dks LFkfi r dj usRo djuk gsrk gA ; s l pjk i kS] kSxdh ds vuqz, ks }kjk vk/kfudre i zU/kdh; i kfof/k; ka dk fodkl dj mlga vi us mRi knuka gsrq mi ; ks ea ykrs gA vk/kfudhdj.k ds fofHku pj.kka ds vlrXr forrh; fuosk Hkh , d i ed[k pj.k gsrk gA vr%ml ij Hkh ; s /; ku j [krs gA

1/5½ **nsud thou&'ksh&** I ekt ea iR; d 0; fDr ds nsud thou dks I puk dbz izdkj I si Hkkfor djrh gA mi Hkksx ea vkus okyh oLrqka dh xqkoRrk] LokLF;] I g {kk} f'k{kk} eukjat u vkfn vud izdkj dsfu; fer fØ; k&dyki ka ea I puk iR; d 0; fDr ds fy, egRo dh oLrqekuh xbz gA

vk/kfud ifjofr I ekt ea [kkuk idku\$ Hkou fuekZk] Hkou I kSn; hZlj .k] cKxokuh vkfn vud i {kka ij I puk dh vko'; drk gkrh gA I puk i kS] kSxdh usbu fofHkuu izdkj dh I pukvka dh mi yC/krk grqvfHkxe ds: i eadbz izdkj ds I pkj I k/ku mi yC/k dj, gftudsek/; e I suohure fo"i; k; rF; kavkj ?kVukvka dh tkudkj] i kdfof/k; k; [ksy ifr; kSxrkvk] LokLF; I pukvk; ?kj ij gh [kjhnnkj] vkfn dj I drs gA vkt mi HkDrkvka dks 0; ol kf; d I kfgR;] foKki u vk\$ vU; bl h izdkj dsfdz kadyki ka }jkj I puk mi yC/k djkbz tkrh gA I koZt fud xBFkky; vk\$ I puk dSnzHkh mi; kDrkvka dks mudh vko'; drk dh I puk mi yC/k dj kusea I g; ksx djrs gA

mi jkDr v/; ; u ds vk/kkj ij ; g Li "V gSfd I ekt dk iR; d {ks= I puk ds i Hkko vk\$ mi ; ksx I svyx ughagks I drsD; kf d I puk , d I kekt d vko'; drk g\$ I d k/ku gSvk\$ 'kDr gSA ft I I sl ekt vk\$ jk"V^a dh vFk; oLFkk] vk\$] kSxdh] oSkfud , oa i kS] kSxdh dsfodkl ea I g; ksx i ktr gkrk gA vr% I kekt d ifjorZu , oa vkFkZd fodkl ea I puk dh egRo iwZ Hkfedk gA

mi ; Dr v/; ; u ds vk/kkj ij ge bl fu"d"Z ij igprsgSfd I kekt d fodkl ds fy, I puk vk\$ I pkj i kS] kSxdh , d egRo iwZ I d k/ku gA fdl h Hkh I ekt ds KkuktZu dk i Eke I ki ku I puk gSvk\$ Kku fdl h Hkh I ekt dh mUufr vk\$ I Qyrk dsfy, , d vko'; d vk/kkj gA fdl h Hkh izdkj dsm | e dk vkjEHk gh I puk , oa Kku I sgkrk gA f'k{kk , oafodkl] tul pkj] 0; ki d vk\$ m | ksx vk\$ nsud thou& 'ksh eafodkl dk vk/kkj I puk gh gA oSkfud , oa i kS] kSxdh vud akku dsfy, I puk , d vfr vko'; d oLrqrksGgh] I kFk gh eukjat ukRed fØ; k&dyki ka dsfy, Hkh I puk dh vko'; drk gkrh gA

4-3 jk"Vh; I puk ufr &

varjkVh; xfrfof/k; ka ea I gHkfxrk &

vkt ds ; x ea I puk dks , d I 'kDr I k/ku , oa oLrqekuk x; k gA jk"V^a ds

cgæ[kh fodkl , oa ixfr ea vuð ækku dk ; kxнку vf}rh; gS vksj vuð ækku dh vk/kkjf'kyk I pøuk gA fo'o ds ik; % I Hkh n'skka ea ifro"lz djkk/ka : i , vuð ækku , oa fodkl ds fØ; kdyki ka ij 0; ; fd, tk jgs gA ftl ea I a Ør jkT; vefjdk viuk fof'k"V LFkku j [krk gA fodkl 'khy n'skka ea Hkh vuð ækku , oafodkl dksjk"Vh; ixfr dk vk/kkj ekuk tk jgk gSvksj I pøuk dksegROI wKzjk"Vh; I d k/ku ekuk x; k gSA ftl s jk"Vh; uhfr; k&vkfFkd] oSkfud i kSj kSxdh rFkk I ekftd fodkl , oa ixfr dk Hkh vko' ; d I k/ku ekuk x; k gA ifj .kker% , d sfdz kdyki ka ij i ; klr /ku 0; ; fd; k tk jgk gA yfdu vuð ækku , oafodkl dsdk; ZrHkh I Qy fl) gkæç tc xFkky; ka , oa I pøuk I øk izkky; ka dh I Ø; oLFkk gks tks oLrø% jk"Vh; I pøuk izkkyh , oa xBFkky; uhfr; ka ij vR; kf/kd fuhkj djrk gA ftl izkj xBFkky; ka dsfodkl I sfy, xBFkky; vf/kfu; e dh ijeko' ; drk gA ml h izkj I okre I pøuk , oaxFkky; I øk rFkk I pøuk ds izl kj graqbl I s I Ecf/kr uhfr dh Hkh vko' ; drk gA

i kSj kSxdh dsfodkl dsifjiç; ea ; g ekuk tk jgk gSfd , d uohu I ekt dk vkfoBkko gksjgk gA og g& ^I pøuk mled[k I ekt** , d h Hkh dYi uk dh tk jgh fd ^dkxt foghu I ekt** dk Hkh vH; ø; gks jgk gA vr% xBFkky; ka dh 0; oLFkk izkkyh dh /kkj .kkj dk; Zi) fr] I æBu , oa0; oLFkkj I pkyu , oal økvka dh ij kuh ekU; rkvka ds LFkku ij uohu ekU; rk inku dh tk jgh gA vksj uohu nF"Vdksk fodfl r gq gA vkt dy I o= , oa I koBkksed : i I sKku ds izl kj , oLFkkuka rj .k rFkk ml smi ; kx graql j f{kr j [kusdsfy, xBFkky; ka dks , d vko' ; d I ekftd I LFkk ekuk x; k gA dkbZ Hkh I epk;] I LFkkj I æBu rFkk ifr" Bku fcuk fdl h xFkky; &0; oLFkk ds iwKz ugha ekuk tkrk gA

Hkkjrh; fLFkfr , oanF"Vdksk&

Hkkjrh us , d jk"V^a ds : i ea ; g vuðko fd; k gSfd oSkfud] i kSj kSxdh , oa vkfFkd ixfr rFkk fodkl vksj J'SBrk i klr djusdsfy, xFkky; 0; oLFkk izkkyh dks vk/kfuud cukuk rFkk I pøuk izl kj dsfy, vko' ; d ; kstuk vfrvko' ; d gA Hkkjrh I jdkj us; g Lohdkj fd; k gSfd xBFkky; 0; oLFkk dk vk/kfuuddj .k djuk , d I pøuk mled[k I ekt dksfodfl r djuk gA tc rd I pøuk rFkk Kku dk mi ; kx djusdk tks 0; ki d vlrj fodfl r , oafodkl 'khy n'skka ea gSml snij ugha fd; k tk, xkj rc rd fodkl 'khy n'skka dk I pøuk ds mi ; kx ij i Hkko cuk jgsxA vFkkZr -I pøuk vHkkoXr n'sk I pøuk&I Ec) n'skka I s ixfr , oafodkl ea I nØ i hNs jgæA

jk"Vh; fodkl ds l æzk ea Hkkjr l jdkj us vi us vuod jk"Vh; uhfr; ka rFkk fu; kst u i ysq[ka ea l p[uk dsegRo , oa i Hkko dk mYys[k fd; k gA

oSkkfud uhfr l adYi , oa i kSj kfxdh uhfr oDr0;

Hkkjr l jdkj us1958 ea oSkkfud uhfr l adYi dks ykxwfd; k Fkk vksj ; g fu'p; fd; k Fkk fd mlUkr , oa vYi fodfl r ns kka ds vUrj dks foKku dh ixfr dsek/; e l s gh nj fd; k tk l drk gA bl l adYi dk eq; mnas; oSkkfud , oa i kSj kfxdh ixfr dks i kRl kfgr djuk Fkk ftl eansk dk fodkl fufgr gA

oSkkfud uhfr l adYi dk funzk xFkky; , oa l p[uk l ok ds ifji; eafuEukfdr g&

1/4 1/2 'kSkf.kd Lora=rk ds {ks= ea Kku dh i kflr rFkk iz kj ea0; fDrxr iz kl ka rFkk dk; ka dks i kRl kfgr djukA

1/2 1/2 l keku; : i l § oSkkfud Kku dh i klr rFkk vuqz kx l s tksykHki n oLrq amRi Uu gksh ga mlgan sk ds ykxka ds fy, l xg , oa i klr djukA

Hkkjr l jdkj dh tuojh 1983 ea ?kks"kr i kSj kfxdh uhfr oDr0; ml l s ; g Li"Vr% vkHkkl gksh gS fd i kSj kfxdh l p[uk ds l adyu , oa fo'ySk.k dh n{karki wkz iz kkyh mi yC/k gks l dA

f'k{k dk jk"Vh; uhfr

Hkkjr l jdkj usebZ1986 ea uohu jk"Vh; f'k{k uhfr dks vi ukus dh ?kksk.kk dh gS ftl ds vaxr dk; jr xFkky; ka dks mlur cuku\$ uohu xFkky; ka dh l l Fkki uk rFkk l Hkh l l Fkkvka ea l epr xFkky; l fo/kkvka dks mi yC/k djus ij tkj fn; k x; k gA

jk"Vh; l p[uk uhfr&

^c d xm.M Vwbokyfox , uskyu buQjeshku i klyl h** dk tks i ysq[ka gS ml ea okLrfod , oami ; pr turU= iz kkyh dh l Qyrk ds fy, l p[uk@Kku dks vfrvko'; d ekuk x; k gS ftl l s tu&l emj dks l kef; d fdz kdyki ka rFkk l eL; kvka t\$ s & jkthu\$rd] vkfFkd] l keftd] x.krkf=d] 'kSkf.kd] oSkkfud] i kSj kfxdh] vksj kfxd vkfn l si wkz%voxr j [kuk gA bl l iz x eabl i ysq[ka ea l koZt fud l p[uk , oa l Ei \$k.k] l ekpj & i =k\$ ykd l Hkk] vkdk'kok.kh] njn'kz] fQYek\$ iz l p[uk dlnk\$ i fcyds kul

fMfotu] vuđ žkku , oa l anHkz foHkkx dh Hkfiedk , oa ; kxnku dks Li "V fd; k x; k gđ budks l kožtfud l p̄uk dk vfr vko' ; d l k/ku , oa izkkyh ekuk x; k gđ

xĀkky; , oa l p̄uk izkkyh dh jk"Vh; ulfr&

vDVĀj 1985 eaHkkjr l jdkj dsekua l ā k/ku fodkl eāky; usxĀkky; , oa l p̄uk izkkyh dh jk"Vh; ulfr dks fu/kkZjr djus ds fy, i ksMh-i h- pVvki k/; k; dh v/; {krk ea, d l febr dk xBu fd; kA ebZ1986 ea l febr usvi uk i fromu 0; k[; k l s i Lrŋ fd; k A

bl ulfr dks l Qy cukus ds iz kl ds : i ea l Ādfr foHkkx us 1986 ea , d l e{k l febr i ksMh-i h- pVvki k/; k; dh v/; {krk ea xFBr dh ft l usekpZ 1987 l sdk; Z djuk i kjEHk fd; k vĳ vi uk dk; Z ekpZ 1988 ea i wkZ dj fn; kA bl us fuEukādr xĀkky; & izkky; ka rFkk 0; oLFkk dh vko' ; drk dks fuf'pr fd; k&

¼½ l kožtfud xĀkky; 0; oLFkk ½½ 'kĳf.kd xĀkky; 0; oLFkk ¼½ fof' k"V xĀkky; , oa l p̄uk izkkyh ¼½ jk"Vh; xĀkky; rFkk okM; kRed l ok, abl dk mnās ; Hkkjr ds xĀkky; vkUnkyu rFkk l okvka dks ¼½ f' k{k dh jk"Vh; ulfr ½½ xĀkky; vkUnkyu ¼½ gekjs l kĀdfrd obko dks l j f{kr j [kus dh vko' ; drk ds vuđw cukus dk jgk gđ

xĀkky; , oa l p̄uk ulfr ds fuEukādr mnās ; gđ &

¼½ jk"Vh; fdz kdyki ka ds l Hkh {ks=ka ea l p̄uk ds l xBuka rFkk l p̄uk dh l y/Hkrk rFkk mi ; kx dks l Hkh izdkj ds iz ōr l k/kuka ds ek/; e l s i kR l kfgr djuk] c<kok nsuk vĳ l ĀFkkfir djukA

½½ dk; j r xĀkky; , oa l p̄uk izkky; ka vĳ l okvka dks mlur , oa l ŋ<+djuk vĳ uohu l p̄uk i ks] kĳdh l sykhkkfUor gkus ds fy, jk"Vh; vko' ; drk ds vuđw uohu dk; žeka dks i kjEHk djukA

¾½ xĀkky; , oa l p̄uk dfež ka dks i f' kf{kr djus grq rhozkeh dk; žeka dks i kR l kfgr , oa i kjEHk djuk] ft l l s xĀkky; , oa l p̄uk l okvka dk vk; kstu , oa 0; LFkk grq ; kĳ; dež l yHk gks l da vĳ , s h l okvka ds fy, muds dk; kĀ dks egRowi .kz ekuukA

¼½ jk"Vh; vFk; oLFkk ds l Hkh {ks=ka , oa Lrjka dh l p̄uk vko' ; drk vka dh i fir ds fy, xĀkky; , oa l p̄uk l ŋo/kvka rFkk l okvka dks 'kh?kfr' kh?kz fodfl r djus

i ; klr ekthvfjæ ræka dks LFkfi r djuka

1/5½ KkuktZu ,oa Kku&iZ kj rFkk ckf) d Lorærk ds {ks= ea0; fDrxr iz kl ka rFkk fØ; kdyki ka dks i kRl kfgr djuka

1/6½ KkuktZu rFkk Kku ds vuqz, kx ds ifj.kkeLo: i tksykhk i klr gksrsgj mlgans k dsykska dsfy, i klr , oal æg djuka

1/7½ jk"V^a ds l kldfrd oBko dks l jf{kr j [kuk rFkk ml l sykska dks voxr j [kuka

I Ire i po"khz ; kstuk ds iz kl &

xBFkky; , oal puk l okvka dh 0; oLFkk rFkk vko'; drk dks l Ire i po"khz ; kstuk ds vlræHkkjr l jdkj us i wkZeku; rk inku dh gSvks l puk i ks l kfxdh dk mi ; kx djus ij tkj fn; k gSA ; kstuk ifronu ea ; g l ærfæ dh gSfd xBFkky; l enk; dks dEI; Wj ds mi ; kx l svoxr dj; k tk; vks i æ[k xBFkky; dk; Z dks dEI; Wjhdæ fd; k tk; æ bl l s; g vkHkk l gksrk gSfd Hkkjr l jdkj xBFkky; , oal puk izkkyh dks l æhur djusgrqdfvc) gæ

; kstuk vk; kx dsdk; Z y dk xBFkky; l okvka, oal puk foKku dk i fronu&

xBFkky; l okvka, oal puk foKku ds vk/kfuddj.k djusdsfy, ; kstuk vk; kx usMk-, u- 'kl kfxjh dh v/; {krk ea, d dk; Z y dk xBu fd; kl ft l usvi uk i fronu 0; k[; k l si ærfæ fd; ka bl i fronu ea xBFkky; ka dks l puk dk l cl svf/kd l e) , oal fer0; ; h L=kr ds: i eadh eku; rk inku dh x; h gæ i froksnu ea; g Hkh mYys[k fd; k x; k gSfd jk"Vh; Lrj ij ; g l cl sde l æflor , oafu; kstr gæ bl i fronu ea xBFkky; ka l sgksus okys vi R; {k ykHk dk mYys[k djrs gq mudk v/kfuddj.k dju\$ dEI; Wj us/odZ ekbdksQYe] dEI; Wj dk fj i ksktQh grq mi ; kx dju\$ rFkk l puk i ks l kfxdh dh l Hkh fof/k; ka , oal k/kuka dk mi ; kx fd, tkus ij tkj fn; k x; k gæ i y\$ku l ok dks foLræ cukus rFkk l ædyuka dks l e) 'kkyh cukus ij Hkh tkj fn; k x; k gæ

'k\$kf.kd] l koZtfud , oafof'k"V xBFkky; ka dh vko'; drk , oafolrkj rFkk ekuo l d k/ku dh vko'; drk ij Hkh bl i fronu ea izdk'k Mkyk x; k gæ l u-2000 rd dEI; Wj us/odZ dks i wkZ% LFkfi r djus ij tkj fn; k x; k gSft l l s l Hkh fof'k"V xBFkky; ka dks , d l kFk l Ec) fd; k tk l dsA

xɔfky; , oal ɔuk izkkyh dh jk'Vh; uhfr dsifji; eajtk jkeeku jk;
ykbcih QkmUMS ku rFk bfUM; u ykbcih , l k's'k, 'ku }kjk ifrikfnr , oal w-c) dh xɔz
uhfr; kadk mYys[k vko'; d i rhr glrk gA D; kAd osvR; r foLr'r gA nksuka dh uhfr; ka
dk idk'ku jtk jkeeku jk; ykbcih QkmUMS ku ½dydRrk½ }kjk 0; k[; k dsvlrxz
1985 eafd; k x; k gA budk ; gka l aki eamYys[k fd; k x; k gA

**jktk jkeeku jk; ykbcih QkmUMS ku }kjk iLrɔ xɔky; , oal ɔuk izkkyh
dh jk'Vh; uhfr&**

jktk jkeeku jk; yk; cjh Qkm.MS ku ds iɛɔk mnas; ka ea l s , d mnas;
xɔky; dh jk'Vh; uhfr dks ifrikfnr djuk vks dɔnh; , oajkT; l jdkjka }kjk ml s
ykw d jus dsfy, dk; Zdjuk** gA Qkm.MS ku }kjk iLrɔ uhfr ea iɛɔk 30 fclnqgA
l Ei wkz uhfr oDr0; dks l aki ea ; gka iLrɔ fd; k x; k g&

¼½ l ɔuk dks l ekt , oal; fDrxr fodkl dsfy, vko'; d l a k/ku ekudj dɔnh;
rFk jkT; l jdkjka dks xɔfky; , oal ɔuk l ok dh i ; kZr 0; oLFk djuh pkfg,
vks vU; , tɔl ; ka l s l g; kx i klr djuk pkfg, A

½½ l Hkh idkj dh l kefxz, kadk l epr l dyu rFk l ɔuk dk id kj l ɔuk dɔnka
, oa xɔky; kadk iɛɔk dk; ZgA vr% xɔfky; kadk , d us/odZ LFkfi r djuk
pkfg, A

¾¾ xɔfky; , oal ɔuk vko'; drk dh i firZgrq l Hkh jkT; kɔ foHkxka, oal l Fkka dks
l eflor djus vks mi ; ɔr dk; Zdeka dks i kJEHk djus , oavkfkZd l gk; rk i nku
djus dk funk nsk ft l l s xɔky; , oal ɔuk l ok dh 0; oLFk gks l dA bl ds
fy, jk'Vh; Lrj dh dɔnh; l ello; i fj"kn~dk xBu gksuk pkfg, A

¼½ Hkkjrh; l ɔuk l kefxz, ka rFk l kfgR; d oBko dks l jf{kr j [kus grq jk'Vh;
xɔfky;] dydRrk] rhu dɔnh; l xg dɔnz ½xɔky; ½fnYyh] enkl rFk cEcbz
dks l fdz , oafodfl r fd; k tk, rFk jkT; dɔnh; xɔfky; kadsek/; e l sjkT;
l jdkjaHkh l kfgR; , oal l dfr dh l jf{kr grqbl idkj dsdne mBk; A bl dsfy,
cpl Msyhohj , DV ¼1954½ dks l akk/kr fd; k tk, A

½½ jk'Va dsckS) d mRiknu rFk ml ds l ɔuk i ɔi kZl dsfy, xɔfkkRed fu; æ.k
grqokæ; kRed fØ; kdyki kadks l eflor djuk rFk jk'Vh; xɔfky; dsvlrxz
, d jk'Vh; okæ; kRed dɔnz dh LFkki uk djukA

- 1/6½ I UnHkZ, oal wuk vko'; drkvdadh i firZdsfy, I æfBr iz kl fd; k tkuk pfg, rFkk jk"Vh; xBFkky; dks , d i æqk I UnHkZ I wuk dñnz dh Hkfedk vnk djuh pfg, A
- 1/7½ v/; ; u] v/; ki u] f'k{kk rFkk vuq ækku ds fy, i qrdka ds vknku&inku grq jk"Vh; xBFkky; dks vU; xBFkky; ka ds l g; kx l susRo inku djuk pfg, A
- 1/8½ jk"Vh; xBFkky; dks vi uk nf; Ro i wkZdjusgrqI eqpr ekU; rk , oal eFKU i klr gksuk pfg, A
- 1/9½ jk"Vh; fo"K; xBFkky; &foKku] vk; foKku] d f"K dk; e jgus pfg, vKs mudka vi uk nf; Ro i jk djuk pfg, A
- 1/10½ I koZtfud xBFkky; dY; k.kdkjh I LFkva dk dk; Z djrs gñ vKs I koZtfud cKs) d , oaeukj at ukRed vko'; drk dh i firZfcuk fdI h HksnHkko ds djrs gñ vr% jkT; I jdkja , oadñh; I jdkj buds fodkl rFkk iz kkl u dh I eqpr 0; oLFkk dja vKs xBFkky; vf/kfu; e ykxw djA
- 1/11½ fo' ofo | ky; h , oae gfo | ky; h xBFkky; ka dks l e) ' kkyh cukusgrqmudsokf"kd ctV dk 6 ifr'kr mu ij 0; ; fd; k tkuk pfg, A
- 1/12½ Ldny xBFkky; ka dks mi ; qR , oami ; kxh cukus ds Bkd dne mBkus pfg, A
- 1/13½ fof' k"V xBFkky; ka dk l eqpr mi ; kx djus grqmi ; qR us/odZ LFkfi r fd; k tkuk pfg,] D; kñd vuq ækku ds dk; ka ea bul scMh l gk; rk i klr gksrh gA
- 1/14½ cky xBFkky; ka dh Hkh LFkki uk dh tkuh pfg, vKs I Hkh I koZtfud xBFkky; ka ea cky d{k vko'; d : i l s0; ofLFkr fd; k tkuk pfg, A
- 1/15½ fodykæks rFkk us=ghu ds fy, fof' k"V izdkj ds xBFkky; ka dk vk; kst u fd; k tkuk pfg, A
- 1/16½ xteh.k , oatutkrh; ka dks xBFkky; I ok mi yC/k dh tkuh pfg, A
- 1/17½ ikphu l kfgR; , oal wuk L=ka ka dks l jf{kr j [kus grq jk"Vh;] jkT; rFkk fof' k"V izdkj ds vfhky[kxkj ka dh l q; oLFkk gksuh pfg, vKs mudks jk"Vh; I wuk izkkyh dk vfhklu vak ekuuk pfg, A
- 1/18½ i k.Mfyfi ; ka Hkh Kku ds i æqk I k/ku gñ vr% budka l jf{kr j [kus dh l q; oLFkk gksuh pfg, A
- 1/19½ i qrdka ds izdk' ku dks Hkh i kRl kfgR djus ds l eqpr dne mBkus pfg, A
- 1/20½ xBFkky; ka ea i kjLi fd : i l sl gdfjrk rFkk bl ds fy, , d mi ; qR : i j{kk

rš kj dh tkuh pkfg, A

1/21½ I Hkh izdkj dsxɔFkky; ka, oal ɔpuk dɔnka dsfy, I ɔkvlkadk ekud fu/klɔjr fd; k tkuk pkfg, A

1/22½ mi ; ksɔdrkɔ/ka dsfunɔ ku , oaf' k{k.k dk vk; kstu fd; k tkuk pkfg, A

1/23½ vk/kɔud i kSj kɔxdh ds I Hkh mi dj. kka, oal k/kukadk mi ; ksɔ fd; k tkuk pkfg, A

1/24½ xɔFkky; ka rFkk I ɔpuk dɔnka ea mRre izdkj dh 0; oLFkk rFkk dɔky I ɔk ds vk; kstu gɔɔ dfez ka dks if' kf{kɔr djus gɔɔ mRre izdkj dh if' k{k.k 0; oLFkk vk; kɔtr dh tkuh pkfg, A

1/25½ ; kɔ; dfez ka dks vkdf'kɔr djus gɔɔ mRre ɔsu] ^LVɔI ** rFkk mRre I ɔk 'krɔ gkuh pkfg, A

1/26½ xɔFkky; , oal ɔpuk dɔnka da Hkou mi ; ɔr , oadk; ɔkjh gkus pkfg, A

1/27½ xɔFkky; vkUnksyu dks I fdz cukus gɔɔ jk"Vh; , oajkT; Lrj ij xɔFkky; I ɔkka dks mi ; ɔr Hkfedk dk fuokɔ vnk djuk pkfg, vkɔ blgajkT; ka , oa'kkl u dh vkj I s i kɔI kgu i kɔr gkuh pkfg, A

1/28½ I ɔpuk i ɔkg , oal i kɔ rFkk vUrjk"Vh; us/odZ gɔɔ mi ; ɔr , tɔI h@I ɔFkk dks vUrjk"Vh; , tɔI ; ka I s I Ei dz , oal g; ksɔ LFkkfir djus gɔɔ I ɔfBr djuk pkfg, A

bl izdkj QkmUMS ku us i k; % I Hkh i {kka dks jk"Vh; uhfr ds vUrɔr I fɛfyr fd; k gɔ

bfUM; u ykbcjh , I kɔ'k, 'ku dh xɔFkky; , oal ɔpuk izkkyh dh jk"Vh; uhfr&

QkmUMS ku dh uhfr dh rɔyuk ea bfUM; u ykbcjh , I kɔ'k, 'ku dh uhfr dk nɔ"Vdksk rFkk I ɔko Bkɔ , oaØec) gɔ bl dk I ɔkɔ ea mYys[k fuEukɔdr g&

1/4½ jk"Vh; xɔFkky; , oal ɔpuk izkkyh &

xɔFkky; i ɔɔ[k i Hkko'kkyh jk"Vh; I ɔ k/ku gS vkɔ jk"V^a ds cgeɔ[kh fodkl ds vko'; d vk/kkj gɔ vr% jk"Vh; xɔFkky; , oal ɔpuk izkkyh ds fodkl dks vf/kd oj; rk inku dh tkuh pkfg,] ft I I s i R; d ukxfjd budk ykHk mBk I dɔ

1/2½ jk"Vh; I ɔpuk uhfr&

I p̄uk i d kj l ɔk ds i fji ɣ; e a j k'Vh; xɔFkky; I p̄uk u hfr dks fu/kkzj r djus dh vko'; drk gɣ ft l sfuf' pr , oal ɰo) fd; k tkuk p̄kfg, A bl dsfy, 'kkl u dks vf/kfu; e , oafu; eka dks ykxwdjuk p̄kfg,] ft l l sl p̄uk vo'; drk dh i firzgrh jgA bl dsfy, vkfFkz] dfeɔ rFkk l ɔFkkvka dks l ɣHk djus dh u hfr dk fu/kkzj .k fd; k tkuk p̄kfg, A

I kekftd , oavkfFkz u hfr; ka ds, d vfHku va ds: i eaHkkjrh; jk'Vh; I p̄uk u hfr dks ekU; fd; k tkuk p̄kfg, rFkk vU; fo" k; ka , oa {ks=ka dh u hfr; ka dh Hkkār I fio/kku ds vlrxr bl s LFku fn; k tkuk p̄kfg, vkj i po"khz ; kst ukvka ea bl s I fēfyr fd; k tkuk p̄kfg, A

mnas; &

¼½ **xɔFkky; ekud&** de l s de xɔFkky; I ɔkvka dk ekud i j s nsk dsfy, fu/kkzj r fd; k tkuk p̄kfg, vkj 6 1@4 i ɔ'ko jk'Vh;] jkT; rFkk LFkuh; ctV dk Hkkx xɔFkky; I ɔk dsfy, 0; ; fd; k tkuk p̄kfg, A

½½ **xɔFkky; % I p̄uk dhnz &** xɔFkky; jk'Vh;] jkT; rFkk LFkuh; Lrjka ij I p̄uk dhnz dk dk; Z dja rFkk ɔskkfud I p̄uk] 'kkl dh; i yz [kk] l kã [; dh; vk/ kkj & l kexh rFkk fodkl i fdz kvka dh I p̄uk dh I kefxz ka dk fu% kyd vfHkxe i nku djA

¾½ **ekuoh; nF"Vdksk&** xɔFkky; ka dks l kã dfrd ɔlko , oal E i nk dk l ɔgky; Hkh ekuk tkrk gA vr% bl ds Hkou dk fuekz k l kɔn; ɔ wkz , oadk; Zkjh : i l sfd; k tkuk p̄kfg, A

I p̄uk vko' ; drk, &

¼½ **I p̄uk l rF"V &** xɔFkky; I ɔkvka dk y{; mi ; kxdrkz dh l rF"V gkuk p̄kfg, A vr% xɔFkky; dh 0; ɔLFkk rFkk l ɔk vk; kst u mi ; kxdrkz dh l rF"V dks nF"Vxr j [krs gq fd; k tkuk p̄kfg, A

½½ **ck) d LorU=rk &** ck) d LorU=rk dh /kkj .k dks xɔFkky; ka dks vi ukuk p̄kfg, vkj I p̄uk ds vfHkxe ij dkbz jkd ugha gkuh p̄kfg,] t\$ k fd Hkkjrh; I fio/kku ea i ko/kku ea fd; k x; k gA

1/3 1/2 **Ldny xlfkky; &** uskuy dkmfUI y vkID , tndskuy fjI pZ , .M Vfuak Ldny xlfkky; ka dh LFkki uk , oa0; oLFkk dh : ij[kk r\$ kj djs vks jkT; I jdkjaLdny xlfkky; ka dh LFkki uk ea mudks ykxw dja vks I Hkh Ldny/ka ds xlfkky; ka ds fy, ekud fu/kkZjr djA Ldny xlfkky; I kepkf; d dlnz dk Hkh dk; Z djA

1/4 1/2 **f'k{kk uhfr&** uohu jk"Vh; f'k{kk uhfr ds vUrxZ 14 o"lz ds ckydks ds fy, fu%kq d , oa vfuok; Z f'k{kk 0; oLFkk dks ykxw djus ij tkj fn; k x; k gA 0; ol kf; d f'k{kk ij Hkh bl ds vUrxZ i ko/kku fd; k x; k gA vr%i k\$+f'k{kk gsrq mi; q r , oa i; kZr xlfkky; I fo/kk I yHk dh tkuh pkfg, A

fof/kdj.k &

1/4 1/2 **jk"Vh; xlfkky; vf/kfu; e&** vk/kfuud vko'; drk dsifji{; eafjorZ'khy xlfkky; oa l p uk dh vko'; drk dh i firZ gsrq jk"Vh; xlfkky; vf/kfu; e ykxw fd; k tkuk pkfg, rFkk jkT; ka ea Hkh xlfkky; vf/kfu; e ijd ds : i ea ikfjr fd; k tkuk pkfg, A

1/2 1/2 **xlFkky; , oa l p uk foKku dk jk"Vh; vk; kx&** mijDr xlfkky; , oa l p uk foKku dk jk"Vh; mnas; ka dh i firZ gsrq xlfkky; , oa l p uk foKku dk jk"Vh; vk; kx LFkkfir fd; k tkuk pkfg,] ftI ds fuEukfir dk; Z {k\$= gkus pkfg, &

1/4 1/2 jk"Vh; uhfr; ka dks ykxw djus gsrq 'kkl u dks ijke'kz nsukA 1/2 1/2 l p uk vko'; drk vka dk v/; ; u , oa l o[.k djuk] ftI eafo'k\$: i l svkfkZd] l kelftd] l ka dfrd n"V l sfi NM\$, oafodyk ka dh vko'; drk ij vf/kd /; ku nsukA 1/3 1/2 xlfkky; , oa l p uk L=k\$ka rFkk l k/kuka dh mi; k\$xr k dk eW; ka du djukA 1/4 1/2 jk"Vh; xlfkky; , oa l p uk vko'; drk dh i firZ gsrq rFkk l Ecflu/kr fdz, kdyki ka dks l eflor djua ds fy, : ij[kk rFkk ; kstuk, afodfl r djukA 1/5 1/2 xlfkky; , oa l p uk foKku ds l aak eajk"Vh;] jkT;] LFkkuh;] l kozt fud , oa0; fDrxr , t\$UI ; ka dks ijke'kz nsus dks vf/kdr djukA 1/6 1/2 uohure i k\$] k\$xdh ds mi dj . kkarFkk ; a-ka dk mi ; k\$ djusea l gk; d fl) gkusukA 1/7 1/2 xlfkky; ka ds ek/; e l s l p uk] eukjat u rFkk Kku dk vfHkxe i nku djus gsrq l kozt fud xlfkky; ka dh LFkki uk , oa fodkl ea ; k\$xnku djukA rFkk 1/8 1/2 l Ecflu/kr fdz, kdyki ka , oa xlfkky; foKku dk i fronu l d n dks i Zrq djukA

LoSPNd I LFkk, &

0; ol kf; d , oaLoSPNd I LFkk, axbFkky; vkUnkyu dks I 'kDr cukus , oai k&l kfgr djusea egRo i wkz ; ksnku nrs g& mlgamuds dk; ka dks I Ei Uu djus grq vkfFkd I gk; rk inku djuh pkfg, A

Mkd 0; ; &

I puk dseDr id kj , oai nkg grq x bFkky; ka dks i klr gkus okyh Mkd dks Mkd dh njka ea NW nh tkuh pkfg, A

vkdkj rFkk I xBukRed 0; oLFkk&

¼½ **jk"Vh; uSod& xFkky;** karFkk I puk dlnkadk jk"Vh; uSodZvud iz kky; ka dk gskuk pkfg, & v- jk"Vh; x bFkky; c- jkT; xFkky; iz kkyh] I- I koZtfud xFkky; iz kkyh n- 'k{kf.kd xFkky; iz kkyh bz vuq akku xFkky;] rFkk Q- 'kkl dh; xFkky; A

½½ **f'k[kj xFkky; & f'k[kj x bFkky;** ds : i ea MKW jakuFku }kjk ifjdfYi r jk"Vh; x bFkky; dh rhu Jf.k; kagkuh pkfg, & uS kuy dki hj kbV ykbcj h] uS kuy MkjeS/h ykbcj h rFkk uS kuy I foZ ykbcj hA

¾½ **I koZtfud xFkky; & I koZtfud x bFkky;** I keft d I LFkk, ag& I koZtfud I pkj rFkk f'k{k.k.] I k{kjrk dk; Zæ] i kS+f'k{k dh nFV I s dlnh; jkT;] ftyk] uxj rFkk xte x bFkky; ka dh LFkki uk dh tkuh pkfg, A

¾½ **; pd xFkky; & jk"Vh;** fuekZk ea uo; pdka dh Hkfedk dks nFVxr j [krs gq jk"Vh; ; pd xFkky; iz kkyh dh LFkki uk dh tkuh pkfg, ftI ds I kFk dlnh; Lrj ij , d jk"Vh; ; pd xFkky; gskuk pkfg, A , s xFkky; kadk dk; ZI keqkf; d dlnz dk Hkh gskkA

½½ **vfHkyS[kkxkj x bFkky; & i kphu vfHkyS[kk 0; fDrxr ,** oa I koZtfud iyS[kk i k.Mfyfi ; kavkfn dks I ka dfrd egRo dh nFV I s I jf{kr j [kus , oa I xg djus ij vf/kd tkj fn; k tkuk pkfg, rFkk jk"Vh; , oajkT; Lrj ij buds vfHkyS[kkxkj xFkky; gkus pkfg, A

½½ **vf/kdr iyS[kkadsfu{kikxkj & jkT; ,** oadlnh; I jdkj kads vf/kdr izdk' kuka

dsfu{kksi kxkj jkT; ka dh jkt/kkuh ea l LFkfi r djuk pkfg, rFkk ftyk Lrj ij
Hkh bl dh 0; oLFkk gkuh pkfg, A

1/7½ **jk"Vh; okae; kRed dñz & jk"Vh; clf)** d mRiknu dh l puk i qizir] vud
, tñl ; ka ds okae; kRed fdz kdyki ka dks l eflor djuš okae; kRed vud akku
djuš rFkk 'kks/kfFkz; ka dks okae; kRed fu; æ.k j [kusdsfy, , d jk"Vh; okae; kRed
dñz dh LFkfi uk dh tkuh pkfg, tks, d fjQjy dñz dk Hkh dk; ZdjA

1/8½ **izy[k forj.k izkkyh & vk/kfud l puk l ok, i izy[k forj.k izkkyh ij vk/**
kfrjr gkuh gñ ftl ea izy[kka dh ifr; kainku dh tkrh gñ vr% izy[kka dh forj.k
izkkyh dks l 'kDr cukuk pkfg, A

l puk i kš kšxch &

1/4½ **l puk izl/k izkkyh & mi ; kšdrkz/ka ds l kFk fo'ol uh; rk LFkfi r djusgrq**
l Hkh izkj ds xFkky; ka ea vk/kfud l puk izlk dh ifof/k; ka dk mi ; kš djus ij
tkj fn; k tkuk pkfg, vkš vud izkj dh l ok, a tš s & l puk ds fji šst]
, l -Mh-vkbz] l kef; d pruk l ok] fjQjy l ok vkfn dk vk; kstu fd; k tkuk
pkfg, A dEl; Wj , oaekbØki kš š j dk mi ; kš] Nk; kfp=ka dh l fo/kk vkfn l gyHk
fd; k tkuk pkfg, A

1/2½ **xFkky; f'k{k & xFkky;** ka l puk dñzka dh l 0; oLFkk dsfy, ekuo l a k/ku
dh i firZdsfy, mRre izkj ds i f'k{k.k dh 0; oLFkk gkuh pkfg, vkš l e; & l e;
ij bl dh l eh{k k gkuh pkfg, A

1/3½ **xlFkky; ka dk LFkku & xlFki kyks dks 'kškd LFkku , oa l Eeku fn; k tuk**
pkfg, vkš budsoru rFkk vl; l fo/kk, afo' ofo | ky; kš egkfo | ky; kš Ldny ds
'kškf.kd dfež; ka ds l eku gkuh pkfg, A

1/4½ **mi ; kšdrkz dk i f'k{k.k & mi ; kšdrkz/ka ds i f'k{k.k dk; Zæ rFkk xFkky;** ka
dsmi ; kš dsdk; Zæka dsek/; e l xFkky; ka ds ifr , d l keld; pruk tkxr dj
bl dh mi ; kšxrk c<tkuk pkfg, A LFkkuh; l eqk; ds uskvka dks xFkky; i zl/
k l s l Ec) djuk pkfg, A

1/5½ **jk"Vh; dñz & mPp dksV dh f'k{k k vud akku rFkk 'kškf.kd Lrj dksmBkusdh**

nf"V , d xFkky; , oal p̄uk foKku dk jk"Vh; vuđ akku , oaf' k{k k dlnz LFkfi r
fd; k tkuk plfg, A

½ {ks=h; rFk vUrkzVh; I g; ks & jk"Vh; xFkky; izkkyh dks vUrkzVh;
uVodZdksfodfl r djusdk , d va ekuk tk, xk vks I Ei k.k gsrqvUrkzVh;
ekudkadk vuđ j.k fd; k tk, xkA

dk; k̄o; u &

I Hkh Lrjka ij xBFkky; I ok inku dsfy, de I sde ekudkadksfu/kkzj r fd; k
tk, xk vks ml sdk; Uor fd; k tk, xkA I okvka dh ekfuVfjx dsfy, mi ; Dr 0; oLFk
dh tk, xhA

; fn mi jkDr uhfr; kadksdk; kUor , oaykxwdj fn; k tk; rksfu'p; gh I p̄uk
~~oal nllz I ok dksu doy i k̄l kgu i k̄r gkxk efd vuđ I eL; k dk I ek/kku Hkh
rjUr gkrk jgska~~

4-4 I p̄uk I ekt %vo/kkj.kk o I eh{k &

4-4-1 I p̄uk I ekt & I p̄uk I ekt in dk I oEke ifriknu tkiku ea ḡy/kA
fofy; e ts ekfVz us I p̄uk I ekt dks bl izkj ifjHkkf"kr fd; k g& ^, d k I ekt
ftl eal kekftd ifjorZ vks vkfFkd fodkl dh I EHkkouk, al p̄uk ij vk/kkfj r gkA**
, d s I ekt ea Hkh iR; d 0; fDr dk thou Lrj] dk; Z dk Lrj] f'k{k
izkkyh] m | ks 0; ki kj vks foi.ku dk {ks= I Hkh I p̄uk ds iz ks I s fodfl r vks
ixfr'khy gkA I p̄uk I ekt ea mRikn vks I okvka dk I Ei k.k eq; r%fdl h ek/; e
fo'kkr%byDVMLud ek/; eka ds }kj k fd; k tkrk gA

4-4-2 fo'kkrk, & I p̄uk I ekt dh fo'kkrk, afuEufyf[kr gA &

¼½ vkfFkd xqk& orZeku m | ks , d 0; ki kj eal p̄uk dk i e[krk I smi ; ks fd; k
tk jgk gS I p̄uk i ks ksdh dsfodkl usvkfFkd I d k/kuka eal eqpr fodkl fd; k
gA vkfFkd I p̄ukvka dks i wkz i I smi ; ks ea yk; k tk jgk gA vf/kdkkr%0; fDr
I p̄uk fdz, kdyki ka eayxsgg gA I p̄uk I ekt eal p̄uk dk i Hko vkfFkd 0; oLFk
ij Li"V : i I sn[kus dks feyrk gA

1/2½ rduhdh xqk& dEI; Wj vks njl pkj us vk/kfud l ekt ds iR; d {ks= ea
 ifjorZu yk fn; k gA dEI; Wj vks rduhdh us l ekt ds vkfFkZd] jktufrd vks
 l ka dfrd thou dks iHkfor fd; k gA vkt l ekt ds iR; d {ks= eadEI; Wj vks
 l puk rduhdh dk iz kx gks jgk gS pksog f'k{k dk {ks= gkS pksLokLF; &fpdRI k]
 cfidax] jYo} l pkj mi; kx vkfnA bl izdkj l ekt ea dkbZ Hkh , d k {ks= ugha gS
 tgka vk/kfud l puk i kS] kSxdh fo'kSk r% dEI; Wj dk iz kx u gks jgk gks A

1/3½ l keftd xqk& l puk dk l ekt ds iR; d {ks= ea iz kx bl dk fo'kSk xqk gA
 l ekt ds iR; d {ks= eabl dsek/; e l sfodkl vks izfr gks jgh gA dkbZ Hkh
 l keftd {ks= ugha gS tgka l puk dk iHkko n f"Vxkpj u gka

4-4-3 i qrdky; , oal puk l okvka ij l puk dk iHkko &

Kku vks l puk dsl xg.k grqi qrdky; dk mi; kx i k]EHk l sgh fd; k
 tkrk jgk gA l puk l Ei Sk.k dh n f"V l sorZeku ea tks mudk Lo: i , oagRo gSog
 i k]EHk ea ugha FkA l puk l ok dh orZeku vo/kkj .kk Hkh i kphu ugha gA ; g vo/kkj .kk
 vk/kfud foKku , oa i kS] kSxdh izfr dk ifj .kke gA l puk l ok ds {ks= ea u, &u,
 mi dj .kka vks] ifof/k; ka dk fodkl gupk gSftudsek/; e l sKku vks] l puk dk l xg]
 ifdz, kdj .k] i qi kZlr rFk l Ei Sk.k l gt gks x; k gA xBFkky; , oa l puk dlnz , d s
 l l.Fkku gS tks f'k{k] 'kSk 'kk l dh; fO; kdyki k] 0; ki kfjd , oa vks] kSxd vks] vl;
 fofHku {ks= ka dh l puk vko' ; drk vadh i firZ djrs gA xBFkky; viusfofo/k izdkj ds
 l xg ds vk/kkj ij fofHku vkfHkxeka ds }kj mi; kx drkZ/ka dh ekax vks] vko' ; drk ds
 vuq i izy[k vknu&i nku] l nHkZ l puk l ok izy[ku l ok vkfn mi yC/k djkrsgal puk
 i kS] kSxdh ds mi; kx l sxFkky; }kj i nRr l okvka e agRo i wkZ i fjorZu vk; k gS bl dh
 l gk; rk l sde l sde l e; eal puk dk LFkkur j .k fjdkfMx vks] l Ei Sk.k fd; k tk
 l drk gA xFkky; }kj fd; s tkusokys fofHku dk; ZtS & xFk&p; u] vtZu ifO; kdj .k
 vkfn eadkQh l e; yxrk gS vks] l okvka dks mi yC/k dj kusea Hkh l e; yxrk gA vc
 l puk i kS] kSxdh us xFkky; ka dks , d uohu l l.Fk ds : i ea LFkfi r dj fn; k gA vc
 i qrd p; u] O; vknS k] vtZu] l phdj .k] l ekf; dh fu; æ .k] ifj l pj .k] fu; æ .k , oa
 izdku l sl æ/kr fofo/k dk; ka dks vfr' kh?krk l sfd; k tkuk l Hko gA ogh l puk l ok
 inku djusea Hkh l puk i kS] kSxdh cgq l gk; d gA

; | fi vi usnS k ea xFkky; vHkh vi us vk/kfud ifj os k ea i wkZ : i l sugha
 vk i k; sgSA bl dk dkj .k /ku dk vHkko] i f'k{k.k dk vHkko] bPNk 'kfDr dk vHkko vks]

vKkurk gSA I p̄uk i k̄s̄ k̄s̄x dh ds QyLo: i gks jgs i f̄jor Źka dks, d p̄uk s̄h ds: i ea Lohdkj djuk gks xk D; k̄id I p̄uk m̄Ri knu] I x̄g.k v̄k̄s̄ I ā k̄.k ds {k̄s̄ ea t̄ks i f̄jor Ź gq ḡs mlga j̄k̄d uk I k̄ko ugha ḡA by D̄V̄k̄l̄ud fof/k; ka ds ek/; e I s̄v̄f̄k̄ȳs̄ [k̄ djus dh i fdz k I Źe i dzk̄j ds v̄f̄k̄ȳs̄ [k̄ka dk i L̄r̄f̄rd̄j.k] ekbd̄k̄Q̄k̄/s̄x̄k̄Q̄h] eYV̄hef̄M; k v̄k̄fn dk i z̄, k̄s̄ djuk x̄f̄k̄ȳ; ka ds fy, v̄ko'; d gks x; k ḡA bl i dzk̄j x̄f̄k̄ȳ; I p̄uk i z̄ k̄ȳh v̄k̄j I ōk̄v̄ka ds {k̄s̄ ea I p̄uk i k̄s̄ k̄s̄x dh us t̄ḡka i k̄k̄k̄for fd; k ḡs ogha fof̄k̄l̄u dk; k̄s̄, oa I ōk̄v̄ka dk mi; k̄s̄ dj u; s̄v̄k; ke L̄F̄k̄k̄f̄i r̄ fd; s̄ḡA

4-3-4 I p̄uk dk I exz: i I sl ekt ij i k̄ko &

I p̄uk , d , d̄ h vo/k̄k̄j.kk ḡs ftl ds nks i {k̄ ḡA 1/4 1/2 yk̄s̄ d̄f̄iz, v̄F̄kok I k̄ek̄l̄; I p̄uk v̄k̄s̄ 1/2 1/2 i fof/kd , oafof'k"V i dzk̄j dh I p̄uk A I k̄ek̄l̄; I p̄uk dks i f̄r̄fnu ?k̄f̄Vr ?k̄Vukv̄k̄ I ek̄p̄k̄j̄k̄ r̄F; ka v̄k̄fn ds: i ea eḡro fn; k x; k ḡA i fof/kd , o a fof'k"V I p̄uk fo'k̄s̄k : i I seḡroi w̄k̄z ekuh t̄krh ḡs bl I p̄uk dk mi; k̄s̄ gh fo'k̄s̄k m̄n̄s̄; ka dh i f̄r̄z ds fy; s̄fd; k t̄krk ḡA bl i dzk̄j dh I p̄uk gh I ekt ij I exz: i I si k̄ko M̄kyr̄h ḡs v̄k̄s̄ I k̄ek̄f̄td d̄e , oa L̄r̄j ea, d i f̄j?k̄Vuk dk dk; Źd̄jrh ḡA I p̄uk I p̄k̄j ds i f̄j̄ī; ea I p̄k̄j I ekt dk , d r̄ro ekuk t̄krk ḡA I p̄uk v̄k̄s̄ I p̄k̄j nks̄ks̄ 0; oḡk̄f̄j̄d n̄"V I s, d n̄l̄ j̄s̄l si F̄kd ugha ḡA I p̄k̄j dsek/; e I s̄gh I p̄uk ekuo thou ds i R; d̄ i {k̄ ij i k̄ko M̄kyr̄h ḡA

I ekt ij I exz: i I sl I p̄uk ds i k̄ko dks n'k̄z̄s̄ḡs̄q̄fo'k̄s̄k̄k̄aus̄bl ds i k̄ko dh foopuk bl i dzk̄j dh ḡA

- 1- 'k̄s̄k̄f̄.kd I k̄f̄k̄k̄k̄k̄ 'k̄k̄s̄k̄ , oafodkl I k̄f̄k̄k̄k̄k̄k̄ ōk̄k̄f̄ud , oai fof/kdh; d̄l̄n̄k̄k̄ bl̄gha ds l̄ ed{k̄ K̄k̄uijd I k̄f̄k̄k̄v̄ka ds: i ea I p̄uk v̄k̄s̄ K̄ku i d̄q̄k̄ I d̄ k̄/kd m̄Ri kn̄d cu x; k ḡA
- 2- I p̄uk v̄k̄s̄ K̄ku ds {k̄s̄ ea f̄uj̄r̄j v̄f̄k̄of) vo'; k̄ko h ḡs v̄k̄s̄ ; s̄l ekt dks i k̄k̄k̄for d̄jrh j̄ḡx̄hA
- 3- I d̄ k̄/ku I p̄uk ea i f̄jo Ź ds QyLo: i 'k̄f̄Dr I p̄uk ea i f̄jor Ź v̄ko'; d ḡs vr%j̄k̄t̄ūs̄rd L̄r̄j ij u; h 'k̄f̄Dr I p̄uk ds v̄r̄x̄r̄ u; h 'k̄f̄Dr m̄Ri l̄u ḡk̄s̄x̄ bl i dzk̄j I p̄uk dk j̄k̄t̄ūs̄rd {k̄s̄ ij i k̄ko i M̄x̄k̄A
- 4- j̄k̄"V̄a ds v̄r̄x̄r̄ v̄k̄s̄ fof̄k̄l̄u j̄k̄"V̄k̄s̄dse/; I p̄uk I r̄gyu ds v̄k̄k̄ko ds QyLo: i I p̄uk ea/ofu v̄k̄s̄ I p̄uk ea x̄j̄hc dse/; n̄j̄h c<f̄h t̄k; s̄x̄hA
- 5- I p̄uk dk d̄l̄n̄h̄d̄j.k dbz i dzk̄j I sl ekt dks fu; f̄=r̄ dj I drk ḡA

- 6- I p̄uk i kS| kfxdh I p̄uk vks̄ Kku dsvf/kxe inku djusea i wkz-% I {ke gksxhA
- 7- ; g Hkh I Hko gSfd 0; fDrxr ; k I eḡkadse/; ikjLifjd i Hkko eaof) gksvFkok v̄rD; fDr I ædkka eaâkl gkA
- 8- I ekt ij I exz: i I si Hkko ekuoh; rk vks̄ ijLifjd I ædkka eack/kk gh mRi uu djskA

4-5 I kjkâk

bl bdkbzdsv/; ; u I sLi"V gSfd ; fn jk"Vh; I p̄uk uhfr dksvPNh rjg ykxw dj fn; k tk; srksfu'p; gh I p̄uk , oa I mHkZ I ok dksu doy i kRl kgu feysk cfYd vud I eL; k dk I ek/kku Hkh rjUr gks I dsxk vr%i R; sd ns k dh , d I p̄uk uhfr gksuk pkfg; A ftI dsek/; e I s I p̄uk I ok jk"Vh; Lrj ds I kFk&I kFk v̄rjkzVh; Lrj rd inku dj; h tk I dsvr% I p̄uk I ok ds I Qy I p̄kyu dsfy; sjk"Vh; uhfr egRoi wkz Hkfedk fuhkkrh gA

4-6 Lo&tkp vH; kl

- 1- jk"Vh; I p̄uk uhfr I svki D; k I e>rsḡâbl I sl æâ/kr fofHku i {kka dkscrkb; A
- 2- xFky; , oa I p̄uk izkkyh dh jk"Vh; uhfr dks I e>kb; sA