

Madhya Pradesh Bhoj (Open) University, Bhopal

MCA- Second Year

Practical and Project Assignment

Maximum Marks: 10

निर्देश—

1. सभी प्रश्न स्वयं की हस्तलिपि में हल करना अनिवार्य है।
2. दोनों सत्रीय प्रश्न पत्र में से किसी एक प्रश्नपत्र को हल करना अनिवार्य है।
3. सत्रीय कार्य उत्तर पुस्तिकाओं के स्थान पर A4 साईज के सादे कागज पर छात्र द्वारा लिखे जायेंगे जिन पर क्षेत्रीय निदेशक के हस्ताक्षरित मुहर अंकित किया होना अनिवार्य है।
4. सत्रीय कार्य जमा करने की अंतिम तिथि 15 अक्टूबर 2011 है।
5. सत्रीय कार्य उत्तर पुस्तिकाओं को जमा करने की रसीद अवश्य प्राप्त कर लें।

CS-09 Data Communication and Network Project Assignment

First Assignment

- Q. 1 Explain architecture of TCP/IP
- Q. 2 Write a detailed note on wireless LAN also give architecture of wireless LAN.

Second Assignment

- Q. 1 Describe the binary exponential backoff algorithm.
- Q. 2 Explain IP Addressing. Describe supernet and subnet.

CS –10 Discrete Structure and Graph Theory Project Assignment

First Assignment

- Q. 1. Define Binary search Trees.
- Q. 2. Prove that every finite group of order n is isomorphic to a permutation group of degree n .

Second Assignment

- Q. 1. Illustrate Ring with a suitable example.
- Q. 2. Prove that a complete graph K_n has an Euler circuit if n is odd.

CS – 11 Optimization Techniques Project assignment

First Assignment

- Q. 1. Draw a Network diagram showing the layout of simulation system in Hospital management.
- Q. 2. Write the algorithm for processing n -jobs through m machines.

Second Assignment

Q. 1. what do you mean by transshipment problem ? explain with the help of an example.

Q. 2. In a railway marshalling yard, goods train arrives at a rate of 24 trains /day. Assuming that the inter arrival time follow an exponential distribution and the service time distribution is also exponential with an average 30 minute. Calculate-

- a. Average number of trains in the queue.
- b. The probability that the queue size ≥ 4 .

CS – 12 Object Oriented Programming using C++ Practical assignment

First Assignment

- Q. 1. Write a program to overload function to add two numbers.
- Q. 2. Write a program to show multilevel inheritance.

Second Assignment

- Q. 1. Write a program to show use of friend function.
- Q. 2. Write a program to display the use of pointer.

CS – 13: Java Programming Practical assignment

First Assignment

- Q. 1. Write a program to find factorial of given number.
- Q. 2. Write a program to generate fibonacci series.

Second Assignment

- Q. 1. Write a program to find the sum of columns of a matrices.
- Q. 2. Write an applet to accept a message and display that message in blue colour.

CS – 14: Computer Graphics & Multimedia Project Assignment

First Assignment

- Q. 1. Explain mid point circle algorithm with an example.

Q. 2. Write basic principle of Bresenham's circle drawing Algorithm. Using Bresenham's circle Algorithm. Calculate first 5 pixels in one octant. The Centre of Circle is at (50, 60) and radius is 10.

Second Assignment

Q. 1. Explain boundary fill algorithm

Q. 2. Write basic principle of DDA line drawing Algorithm.

CS – 15: Structural system analysis & design Project Assignment

First Assignment

Q. 1. Draw E-R diagram for a university having various department, course and students.

Q. 2. Explain various tests for feasibility.

Second Assignment

Q. 1 What is information system ? Distinguish between DSS and EIS.

Q. 2. Prepare a Software Requirement Specification for Library Management System.