DEPARTMENT OF STUDIES IN Information Technology

MSc- Information Technology

First Semester

ASSIGNMENT QUESTIONS

Instructions:

NOTE: You are required to read the following instructions carefully before you answer.

1. Write the Roll Number, Name and Title of the course at the beginning of your answer of each subject.

2. You should answer all Questions under each paper.

3. You should write the assignment separately with regard to each paper.

4. Assignments without Roll No. and Name will be rejected.

5. After writing the assignment, you should tag the assignment together, put them in a cover and send it to the address given below (Preferably in a long book).

6. Assignment cover should be super scribed by “Assignment for MSc-Information Technology –First-Semester” and write your Roll number and Name.

7. Your assignment should reach to:

   MAHESHA DM
   MCA,
   Programe Co-ordinator , / Lecturer,
   Department of Studies in Information Technology,
   Karnataka State Open University,
   Manasagangothri, Mysore-570006.

8. Assignments should reach us on or before …28th FEBRUARY 2012.
   The assignments received after the last date will be summarily rejected. No further extension is allowed. Also browse the website www.ksoumysore.edu.in for further details- (Timetable for contact program will be hosted shortly).

9. Assignment sent to any other address of the University will not be valued.

10. The students are ADVISED TO KEEP A COPY OF THE ASSIGNMENTS with them and submit it in case the University demands the same.
Note: Test will be conducted for TEN marks during the contact program for all the subjects.

Course - MS 11

Computer Programming

Max. Marks. – 10

Q 1. What do you mean by Loop and Explain various types of Loops in C Language.

Q 2. What is the Difference between Structure and Union?

Paper - MS 11-Lab

Computer Programming

Max. Marks. – 10

Q1. Write a program in C to insert any 4 integers in the Linked List

Q2. Write a program to delete an element from the Queue

Course - MS 12

Algorithm Analysis and Design

Max. Marks. – 10

Q 1. Describe the various notations used to define the efficiency of an algorithm?

Q 2. Define the term Regular expression? Explain the any Four regular expressions in briefly.

MS 12-Lab

Algorithm Analysis and Design

Max. Marks. – 10

Q1. Write an algorithm for External storage

Q2. Write an algorithm for Knapsack Problem

Course – MS13

Discrete Mathematics

Max. Marks. – 10

Q 1. On a circular island we build \( n \) straight dams going from Sea to sea, so the ever two intersect but no three go through the same point. Use Euler’s Formula to determine how many

Q 2. Into how many parts do two quadrilaterals divide the plane, If (a) They are convex

(b) They are not necessarily convex
Q 1. Explain various Quality Factors in a Database?

Q 2. What is the role of a session manager and how it is different from a data manager?

Q 1. Draw an e-r diagram name school. Attribute should be school name, school-address, school-no, no-of-faculty, no-of-student. Implement their relationship among each other with their attributes.

Q 2. Show Generalization and specialization. Consider entity type student, which can be further classified into full time student and part time student.

MAHESHA DM
MCA,
Program Co-ordinator, / Lecturer,
Department of Studies in Information Technology,
Karnataka State Open University, Manasagangothri, Mysore-570006.