2014

(Second Semester)

MASTER OF COMPUTER APPLICATIONS

Paper No: MCA 203

(System Analysis & Design)

Full Marks : 60

Time : 3 hours

The figures in the margin indicate full marks for the questions

Answer Question No 1 and **any four** from the rest

1.   **Answer the following questions briefly:**   2x6 =12

   a) Differentiate between logical and physical design.

   b) What is cost benefit analysis?

   c) Explain Entity Relationship diagram with an example.

   d) What are the principal activities of a modern quality system?

   e) Differentiate between walkthrough and inspection.

   f) List any four functions of a system analyst?

2.   a) What is system requirement? How are requirements determined.   3+3= 6

b) What is prototyping?Explain the significance and characteristics of a prototype? 3+3= 6

3. a) Explain in brief the different data modeling methods . 6

b) What is data dictionary? Explain its significance in system analysis and design? 3+3= 6

4. a) Identify the different categories of system documentation?What are the characteristics of good documentation. 3+3 = 6

b) What is an user interface? What purpose should an user interface serve? 3+3 = 6

5. a) Explain the different steps involved in database design with examples. 6

b) Differentiate between PERT and GANTT Chart?What are the different components that make up a PERT Chart. 3+3 = 6

6. a) Discuss the importance of audit feature in software.What audit considerations are included in system design? 3+ 3= 6

b) Define quality assuarance as it pertains to software?Why is it an important aspect of systems engineering? 3+3 = 6

7. a) What do you understand by feasibility analysis? What
    considerations are involved in feasibility analysis? **3+3= 6**

    b) What is system development life cycle ?How does it
    relate to system analysis?   **3+3= 6**

8. a) Design E-R Diagram for the following :   **3+3= 6**

    i)Customer deposits money in his account.

    ii) Teacher teaches many subjects to students .

    b) Prepare physical and logical DFD's for the following
    activities: **3+3 = 6**

    i)Returning a book to the library

    ii) Online booking of a flight ticket.

    **********II/MCA/203**********