Roll No……………….

M.Sc.IT-10 (Master of Science in Information Technology)
Second Semester Examination 2012
MIT-2002
SAD & MIS

Time: 3 Hours   **Max Marks: 60**

Note: The Question paper has been divided in three sections- A, B and C.

Answers the Questions as per instructions given in each sections.

Section 'A'

(Long Answer's Question)

Answer any two questions. Each question carries 15 Marks.   (2*15 =30)

Q1. a) What do you mean by structure analysis? State the essential parts of structured analysis.

  b) Explain the various type of inputs & output design? What is a form?
      Classify types of forms.

Q2. a) Distinguish between any three of the following:

    (i)   Flow chart and Data flow diagram

    (ii)   Initial investigation and feasibility study

    (iii)   Open System and closed system

    (iv)   White box testing and black box testing

b) Write a short note on any three of the following:

(i) Prototyping

(ii) System Audit and Security

(v) Necessity of Management Information System.

(vi) Advantage of GUI system.

Q3. a) Describe the role of a system analyst in a system development project.

b) Distinguish between transaction processing system, office automation systems and decision support system.

Q4. Under the discount policy a book store get a trade discount of 25% libraries an individual are allowed 5% discount on order of 6-9 copies per book title, 10% on order for 20-49 copies per book title, 15% on order for 50 or more copies per book title. Considering the above discount policy construct a decision table.

Section 'B'

(Short Answer's Question)

Note: Answer any four questions. Each question carries 5 Marks. (4*5=20)

Q1. Explain the principles of good form design.

Q2. List 5 key principles of system development

Q3. What is the difference between the SDLC and a methodology?

Q4. Discuss system development constraints.

Q5. State the general rules for drawing a logical data flow diagram.

Q6. Describe the multidimensional structure of an organization.

Q7. What is user interface design? Describe briefly.

Q8. What are the building blocks of use-case diagram?

Section 'C'

(Objective Type Questions)

Answer All Questions. Each Question carries 01 Mark. (10*1=10)

1. System analysis is NOT
    (a) An attempt to improve an existing system.
    (b) An effort in which requirements of a system are understood.
    (c) Establishing a computer network
    (d) An interdisciplinary approach to problem solving

2. Cost benefit analysis is performed during the
    (a) Analysis Phase
    (b) Feasibility study phase
    (c) Design phase
    (d) Implementation phase

3. Prototyping is a suitable analysis technique for
    (a) System being designed for personnel not conversant with computers.
    (b) Scientific applications where the requirements are well understood.
    (c) Application that create dynamic visual displays.
    (d) All of the above.

4. Which of the following is most likely to be used to describe conditional logic?

   (a) Decision table

   (b) Data flow diagram

   (c) Structured English

   (d) All of these.

5. Prototyping aims at

   (a) End user understanding and approval

   (b) Program logic

   (c) Planning of data flow organisation

   (d) None of the above

6. Digital signature is used in

   (a) Floppy disk marking

   (b) Programming

   (c) Data communication

   (d) None of the these

7. Entities, attributes and relationships are associated with

   (a) Logical concepts of data

   (b) Physical concepts of data

   (c) Persons of an organization

   (d) None of these

8. Management is linked to information by

   (a) Decisions

   (b) Data

(c) Both (a) and (b)

(d) Neither (a) nor (b)

9. Structural programming involves:

(a) Functional modularization

(b) Localisation of errors

(c) Decentralised programming

(d) All of these

10. One of the following is NOT part of a DFD:

(a) Bubble (Process)

(b) Arrow (Flow)

(c) Disk storage

(d) Store