[Total No. of Questions : 8]

S.E. (Comp.) (Semester - IV) Examination, May/June 2011
SYSTEM ANALYSIS & DESIGN

Duration : 3 Hours   Total Marks : 100

Instructions : 1) *Answer any 5 full questions, by selecting at least 1 full question from each Moldule.*
                2) *Assume necessary details, if any.*

MODULE - I

Q1) a) Explain characteristics of Open systems and give with real life examples. **[8]**

b) State the different categories of Information. **[2]**

c) Explain System Development Life Cycle in Library Management System. **[10]**

Q2) a) Explain SDLC with prototyping. **[5]**

b) Describe Management and Information levels in an Organization. **[8]**

c) A good System Analyst have a quality of "Psychologist". Justify. **[5]**

d) Who is a Technical Writer. **[2]**

MODULE - II

Q3) a) An organization supplies various microcomputer makes. It offers discounts based on the number of units ordered. When an order is received, an invoice is generated that includes the quantity, unit cost, discount and shipping and handling charges. Discount is computed as follows : **[12]**

If Invoice - Total is 3,000/- or over, discount is 20%.
If Invoice - Total is between 2,000/- and 2,999/-, discount is 10%
If Invoice - Total is between 1,000/- and 1,999/-, discount is 5%.
If Invoice - Total is under 1,000/-, no discount allowed.

Shipping and handling charges are as follows :

If weight is under 35 kilos, rate is 30/-.
If weight is 35 to 55 kilos, rate is 45/-.
If weight is over 55 kilos, multiply excess (over 55) by 2/- and add 45/- to get shipping/handling rate.

Develop a decision tree.
Represent the information in Structured English.

b) Mention types of Interviews and Questionaires. **[4]**

c) State the various steps involved in feasibility Analysis. **[4]**

P.T.O.

Q4) a) Define System Performance and explain the steps involved. [8]

b) What is a DFD? Mention the rules for DFD construction? [6]

c) Explain the different Information gathering methods. [6]

MODULE - III

Q5) a) What are the different file organization methods? Give advantages and disadvantages of each. [8]

b) What do you understand by Data. Classification and zoning with respect to forms. [6]

c) Explain the role of Database Administrator. [6]

Q6) a) Give requirement of form design? [8]

b) What are the different input media and devices used in inputting the source data. [6]

c) What are objectives of Database. [6]

MODULE - IV

Q7) a) List and explain the different quality factors specifications. [8]

b) Describe the criterias for software selection. [8]

c) Why do systems fail? [4]

Q8) a) Explain the different planning tools. [6]

b) Explain system failure and Recovery . [6]

c) Write short notes : [8]
  i) Ethical codes.
  ii) System Maintenance.

✸ ✸ ✸