M.C.A.

(SEM. II) EXAMINATION, 2006-07
SYSTEM ANALYSIS AND DESIGN
(SPECIAL EXAMINATION)

Time : 3 Hours] [Total Marks : 100

Notes : (1) Attempt all questions.
(2) All questions carry equal marks.

1 Attempt any two of the following : 10×2=20
   (a) What is a system? What is system analysis?
       What are the elements of a system?
   (b) Distinguish between:
       (i) Interaction and independence
       (ii) Schematic and static system models.
   (c) Discuss the concept of MIS and DSS. How are they related? How do they differ?

2 Attempt any two of the following : 10×2=20
   (a) How would an analysis determine the user's needs for a system? Explain.
   (b) Elaborate on the technical and interpersonal skills required of system analyst. When is one skill favored over the other? Why?

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(c) What academic qualifications are important for systems work? What about the personal attributes?

3 Attempt any \textbf{four} of the following: \hspace{1cm} 5 \times 4 = 20

(a) What planning dimensions determine information system development? Elaborate.

(b) Distinguish between decision table and structure chart.

(c) What is the difference between managerial and operational MIS planning? Discuss.

(d) Describe the data analysis method. How does it differ from the decision analysis method?

(e) Illustrate the difference between input/output analysis and system flowchart. When is each tool used?

(f) What are data flow diagrams? Explain.

4 Attempt any \textbf{four} of the following: \hspace{1cm} 5 \times 4 = 20

(a) Differentiate between structured and unstructured interview techniques.

(b) List and explain the primary steps in interviewing.

(c) Differentiate between open ended and closed questions. Give an example of each.

(d) Summarize the advantages and limitations of interviews and questionnaires.

(e) What basic values are relevant to constructing a DFD?
(f) List and illustrate the primary uses and elements of decision table.

5 Attempt any two of the following: 10x2=20

(a) Elaborate on the steps in feasibility analysis if you were to shorten them to four steps, which ones would you pick? Why?

(b) How is the scoring approach different from the art-value approach in evaluating proposals? Illustrate.

(c) Explain three approaches for data entry.