AR – 2507

First Year Second Semester M.C.A. Examination

SYSTEM ANALYSIS AND DESIGN

Paper – 2 MCA 3

USC – 15512

P. Pages : 2

Time : Three Hours]
[Max. Marks : 80

___

Note : (1) Due credit will be given to neatness and adequate dimensions.
(2) Assume suitable data wherever necessary.
(3) Illustrate your answer wherever necessary with the help of neat sketches.

1. (a) Explain in brief the different stages of system development life cycle. 10

   (b) What is feasibility study ? Explain. 4

OR

2. (a) Draw and explain the organizational structure. State the functions and responsibilities of different levels of management. 10

   (b) State and explain in brief the different roles of system analyst. 4

3. (a) Explain questionnaire as a tool for data gathering. Explain with example the open ended and close ended questions. 7

   (b) State the objectives of investigating hard data. 3

   (c) Explain tools used in gathering data. 3

OR

4. (a) Explain process of conducting interview. State the advantages and disadvantages of interview. 7

   (b) Explain with examples the different tools uses in data collection. 6

5. (a) What is prototype ? State the approaches for prototyping. 7

   (b) What is DFD ? Explain logical and physical DFDs. 6

OR

6. (a) Explain dataflow approach to requirements. 6

   (b) Draw and explain the DFD for Customer Billing System. 7

7. (a) Explain with examples the decision tables and decision trees. 10

   (b) What is DSS ? State its significance in the business system. 4

OR

8. (a) Explain data dictionary. Explain its purpose in the system development process. 8

   (b) Define the term "Decision". Explain with example the types of decisions. 6

9. (a) Explain the major contents of a system proposal. 6

   (b) Explain the Cost/Benefit analysis. Explain the methods of project costing. 7

OR

10. (a) Explain in brief the system delivery process. 6

    (b) State and explain the parameters to be considered in ascertaining hardware and software needs for a system. 7

11. (a) State the constraints in designing screen output and printed output. 6

    (b) State the guidlines for input design. Explain input form design. 7

OR

12. (a) Explain object oriented analysis and design. 6

    (b) State and explain the objective of form design. 7

———◆———