

Roll No.

97668

**B. C. A. (2nd Semester) (New)
Examination – May, 2013**

STRUCTURED SYSTEM ANALYSIS & DESIGNS

Time : Three hours]

[Maximum Marks : 80

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Attempt five questions in all, including Question No. 1 which is compulsory and attempt four more questions by selecting one question from each Unit. All questions carry equal marks.

1. (a) Define open and closed systems.
- (b) What are the qualities of system analyst ?
- (c) Define technical and economical feasibility.

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P. T. O.

- (d) What is flow chart ? Explain its advantages and disadvantages.
- (e) Explain various activities during system design.
- (f) Distinguish between coupling and cohesion.
- (g) What is structured walk thoughts ?
- (h) Differentiate between verification and validation testing.

UNIT - I

- 2. (a) What is information system ? Describe the different categories of information system.
- (b) Define system planning. Explain the various steps that should be taken in planning a project.
- 3. (a) Explain the steps and activities in the design phase of system development life cycle (SDLC).
- (b) Distinguish between initial investigation & feasibility study. In what way they are related ?

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UNIT - II

4. Write short notes on the following :
- (a) Decision table,
 - (b) Data flow diagram,
 - (c) Decision tree.
5. (a) Define the objectives of feasibility study. What steps are required in feasibility analysis ?
- (b) What is the purpose of cost/benefit analysis ? Explain various steps in cost/benefit analysis ?

UNIT - III

6. (a) List and explain various parts of system design process with the help of diagram.
- (b) What are the aims of structured design ? Explain coupling and cohesion for structural design.
7. (a) What are the various input devices for feeding the raw data into the system ? Explain various approaches for online data entry.

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- (b) Explain the various requirements of form design.
List the three guidelines for good form design.

UNIT - IV

8. (a) What are the objectives of testing ? Explain unit testing and integration testing.
- (b) Define the term quality assurance. Discuss its importance in system design.
9. (a) What is the importance of studying the maintenance of the system ? Explain different types of maintenance.
- (b) What is the need of standard software documentation ? Explain three documentation standards briefly.