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BCACAC 266

**Credit Based Fourth Semester B.C.A. Degree Examination, April/May 2018
(Common to All Batches)**

SYSTEM ANALYSIS AND DESIGN (Elective – I)

Time : 3 Hours

Max. Marks : 80

Note : Answer **any ten** questions from Part – A and **one full** question from **each** unit of Part – B.

PART – A

1. a) Define open system and closed system. (10×2=20)
- b) List any two roles of system analyst.
- c) List major plan documents.
- d) What is the difference between open and closed ended questions ?
- e) What are disruptive technologies ?
- f) Who is a Scribe ?
- g) List any four deliverables of logic modeling.
- h) What is meant by binary relationship ? Give an example.
- i) Define conceptual data model.
- j) Differentiate form and reports.
- k) What is an interface ? Give example.
- l) What is integration testing and system testing ?

PART – B

UNIT – I

2. a) What is system analysis and design ? Explain preliminary investigation phase of SDLC.
- b) What is management information system ? Explain its features.
- c) Explain the following system concepts :
 - i) Decomposition
 - ii) Modularity. (6+5+4)

P.T.O.



3. a) Who is a system analyst ? Explain the technical skills required for an ideal system analyst.

b) What is transaction processing system ? Explain its features.

c) Explain the following system concepts :

i) Coupling

ii) Cohesion.

(6+5+4)

UNIT – II

4. a) Explain any two traditional methods of collecting information system requirements.

b) Explain major interview guidelines.

c) List and explain the phases of planning game.

(5+5+5)

5. a) Explain joint application design technique in information gathering.

b) List and explain different types of documents analysed for requirement determination.

c) Write a short note on :

i) Prototypes

ii) CASE tools.

(5+5+5)

UNIT – III

6. a) Explain the guidelines for drawing data flow diagrams.

b) What is decision tree ? Explain logic modeling using decision trees with example.

c) Explain the guidelines for displaying tables and lists.

(5+5+5)

7. a) What is Structured English ? Explain logic modeling using Structured English.

b) What is E-R model ? Explain relationships of different degrees in an E-R Model with example.

c) Describe the deliverables and outcomes from process modeling.

(5+5+5)

UNIT – IV

8. a) List and explain different methods of interacting with the system.

b) Explain different types of validation tests.

c) What is process design ? Illustrate grouping processes with example.

(5+5+5)

9. a) What is programming ? What are the five steps in accomplishing it ?

b) State the guidelines for menu design.

c) Explain the significances of normalization concept in database design.

(5+5+5)