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BCACAC 266

**Credit Based Fourth Semester B.C.A. Degree Examination
November/December 2015
SYSTEM ANALYSIS AND DESIGN
(New Syllabus) (2013-14 Batch Onwards)**

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) What is a subsystem ? What is the other name for a subsystem ?
- b) What is the difference between structured and unstructured information ?
- c) How formal systems differ from informal system in an organization ?
- d) Define business process reengineering.
- e) What are disruptive Technologies ?
- f) Define Data flow diagram.
- g) What is structured English.
- h) Define conceptual Data Model.
- i) What is meant by command language interaction ?
- j) Define well-structured relation.
- k) What is Denormalization ?
- l) What is Unit testing and system testing ? **(10×2=20)**

PART – B

UNIT – I

2. a) What is a system ? What are its parts ? Explain.
- b) What are the six phases of the System Development Life Cycle (SDLC) ?
- c) What is prototyping ? What are its advantages ? How can a prototype be developed ? **(4+6+5)**

P.T.O.



3. a) Explain the following system concepts :

- i) Decomposition
- ii) Modularity
- iii) Coupling
- iv) Cohesion

b) What are system analyst's role and responsibility in large and small organizations ?

c) List and explain technical skills for system analysts.

(4+6+5)

UNIT – II

4. a) What is system analysis ? What are its two phases ? Explain briefly.

b) What is JAD ? What are its merits and limitations ?

c) What is the difference between closed and open-ended questions ?

(5+5+5)

5. a) Explain common traditional methods of collecting information system requirement.

b) What are CASE tools ? How can CASE tools be used to support requirement determination ?

c) Why is an interview plan important ? Explain.

(5+5+5)

UNIT – III

6. a) What is the purpose of process modelling ? What are the deliverables and outcomes from a process modelling.

b) List deliverables and outcomes from a logic modelling.

c) Explain how the E-R notation modelling data represent the concept of degrees of relationship.

(5+5+5)

7. a) Explain the rules for drawing good DFDs.

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

c) What is conceptual data modelling ? How many types of E-R diagrams can be produced and analysed during conceptual data modelling ?

(5+5+5)



UNIT – IV

8. a) State the guidelines for menu design.
b) What are the roles of a database administrator ?
c) What is programming and what are the five steps in accomplishing it ? (5+5+5)
9. a) Write a short note on dialogue design.
b) What are the purpose of database design ?
c) What is acceptance testing ? What type of test are performed during the acceptance testing ? (5+5+5)
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