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**BCACAC 266**

**Credit Based IV Semester B.C.A. Degree Examination, April/May 2015**  
**SYSTEM ANALYSIS AND DESIGN**  
**(New Syllabus) (2013-14 Batch Onwards) (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**

- a) Define (i) Open system (ii) Closed system. (10×2=20)
- b) What is System Development Life Cycle ?
- c) What is Business process re-engineering ?
- d) What is OOAD ? What is its goal ?
- e) What are the advantages of group interview ?
- f) List the different types of data flow diagrams.
- g) What are Disruptive Technologies ?
- h) List any four deliverables of logic modelling.
- i) What is meant by binary relationship ? Give an example.
- j) What is meant by Command Language Interaction ?
- k) What is normalisation ?
- l) What is program testing ?

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**PART – B**

**Unit – I**

2. a) Explain preliminary investigation phase of SDLC. (5+5+5)
- b) List and explain technical skills for system analysts.
- c) What is a transaction processing system ? Explain its features.
3. a) Explain system analysis phase of SDLC. (5+5+5)
- b) Describe the management skills for system analysts.
- c) What is a management information system ? Explain its features.

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**Unit – II**

4. a) Explain joint application design technique in information gathering. (5+5+5)  
b) Explain Agile Usage-Centered Design technique for requirement determination.  
c) Explain nominal group technique for determining the requirements.
5. a) Explain interviewing method for determining requirements. (4+5+6)  
b) Explain different types of documents analysed for requirement determination.  
c) What is prototyping ? Explain how prototyping helps in determining information system requirements.

**Unit – III**

6. a) Explain the guidelines for drawing DFD's. (5+5+5)  
b) What is structured English ? Explain logic modelling using structured English.  
c) With suitable examples explain relationships of different degrees in an E-R model.
7. a) What are the guidelines for displaying tables and list ? (5+5+5)  
b) What is decision tree ? Explain with an example logic modelling using decision trees.  
c) What are the set of basic procedures we have to follow in constructing decision tables ?

**Unit – IV**

8. a) Explain different types of validation tests. (5+5+5)  
b) Write about data validation, error handling and data acceptance during input design.  
c) Who is database administrator ? What are the roles of database administrator ?
9. a) Explain the different methods of interacting with the system. (5+5+5)  
b) What are the sub-steps of problem clarification ?  
c) What is a process design ? Illustrate grouping processes with example.