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BCACAC 266

**Credit Based Fourth Semester B.C.A. Degree Examination, April/May 2017
(New Syllabus – 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 in Part B.

PART – A .

1. a) Define a system ? Give an example. (10x2=20)
- b) Who is a system analyst ?
- c) What is business process re-engineering ?
- d) Which are the two sub-phases of system analysis phase ?
- e) List the different types of data flow diagrams.
- f) What is process modelling ?
- g) Define context diagram.
- h) List any four deliverables of logic modelling.
- i) Define referential integrity.
- j) Differentiate Forms and Reports.
- k) What is unit testing and integration testing ?
- l) Define functional dependency.

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MANGALORE - 575 005

PART – B

Unit – I

2. a) Explain Preliminary Investigation phase of SDLC.
- b) Explain interpersonal skills for system analysts.
- c) Describe the functions and activities of managers of an information system department. (5+5+5)

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3. a) Explain the features of transaction processing system.
b) Describe the technical skills for system analysts.
c) What is prototyping ? What are its advantages ? How a prototype can be developed ? (5+5+5)

Unit – II

4. a) What is JAD ? What are its merits and limitations ?
b) What are CASE tools ? How can CASE tools be used to support requirements determination ?
c) What is 'Planning Game' in extreme programming ? How requirements are determined in this methodology ? (5+5+5)
5. a) What are the major interview guidelines ?
b) Explain Agile Usage-Centered Design technique for requirement determination.
c) Explain the Nominal Group Technique for determining the requirements. (5+5+5)

Unit – III

6. a) What is a decision table ? What are the set of basic procedures we have to follow in constructing decision tables ?
b) What is conceptual data modelling ? With suitable examples explain relationships of different degrees in an E-R model.
c) What are the guidelines for displaying tables and lists ? (5+5+5)
7. a) What is the purpose of process modelling ? What are the deliverables and outcomes of process modelling ?
b) What is Structured English ? Explain logic modelling using Structured English.
c) Explain the guidelines for drawing data flow diagrams. (5+5+5)

Unit – IV

8. a) Explain process design and its importance.
b) Explain the different types of validation tests.
c) What is programming ? Explain the five steps in accomplishing it. (5+5+5)
9. a) Who is database administrator ? What are the roles of a database administrator ?
b) List and explain the different methods of interacting with the system.
c) What are the guidelines for conducting a Code Walkthrough ? (5+5+5)
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