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BCACAC 266

IV Semester B.C.A. Degree Examination, April/May 2019

(Credit Based Semester Scheme)

(New Syllabus – Common to All Batches)

Elective – I — System Analysis and Design

Time : 3 Hours]

[Max. Marks : 80

Instructions : Answer any ten questions from Part – A and any one full question from each Unit of Part – B.

PART – A

1. Answer **any ten** of the following :

(10 × 2 = 20)

- What is a system? Give any two examples of system.
- List any two roles of a System analyst.
- Define business process reengineering?
- What is the difference between open ended and closed ended questions?
- List the different types of data flow diagrams.
- Define context diagram.
- What are disruptive technologies?
- List any four deliverables of logical modeling.
- Differentiate forms and reports.
- Define functional dependency.
- What is an interface? Give examples.
- What is unit testing and system testing?

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PART – B

UNIT – I

- Explain system analysis phase of SDLC.
- Explain the features of Transaction Processing System.
- Explain the interpersonal skills for system analysts.

(5 + 5 + 5)



3. (a) What is Management Information System? Explain its features.
(b) What is prototyping? What are its advantages? How a prototype can be developed?
(c) Explain the following system components :
(i) Coupling
(ii) Cohesion

(5 + 6 + 4)

UNIT - II

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

(5 + 4 + 6)

(5 + 5 + 5)

UNIT - III

6. (a) Explain the guidelines for drawing Data Flow Diagrams.
(b) What is structured English? Explain logic modeling using structured English.
(c) What is a Decision table? What are the set of basic procedures we have to follow in constructing decision tables?
7. (a) What is E-R model? Explain relationships of different degrees in E-R Model with example.
(b) Explain the deliverables and outcomes from process modeling.
(c) What are the guidelines for displaying tables and lists?

(5 + 5 + 5)

(5 + 5 + 5)



UNIT - IV

8. (a) State the guidelines for menu design,
(b) Explain different types of validation tests.
(c) Explain the concept of normalization in database design. **(5 + 5 + 5)**
9. (a) Explain different steps in programming.
(b) Explain the different methods of interacting with the system.
(c) What is a process design? Illustrate grouping process with example.
(5 + 5 + 5)
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