Reg. No. | | | | | | | | | |

BCACAC 266

Credit Based Fourth Semester B.C.A. Degree Examination, April/May 2014
SYSTEM ANALYSIS AND DESIGN
(New Syllabus – 2013-14 Batch) (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 **(10×2=20)**

1. a) What is a system ? Give an example of a system.
   b) Name the participants in a project.
   c) What is the difference between open and closed ended questions ?
   d) What is user interface ? List different types of user interface.
   e) Define process modeling.
   f) What is functional decomposition ?
   g) What is database design ?
   h) What is triggering operation ?
   i) Define referential integrity.
   j) Differentiate inspection and debug.
   k) List the steps involved in program design.
   l) Define unit testing and integration testing.

PART – B

Unit – I

2. a) Explain any four system concepts.
   b) What are the six computer based information systems ?
   c) Why do system analysts need management skills when a job is technical ?

(4+6+5)

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3. a) Why a system is needed in an organization ?
   b) Explain interpersonal skills for system analysts.
   c) Describe the functions and activities of managers of an information system department. **(4+6+5)**

Unit – II

4. a) Explain contemporary methods for determining system requirements.
   b) What are the major interview guidelines ?
   c) What is prototyping ? What are its advantages ? How a prototype can be developed ? **(5+5+5)**
5. a) Explain joint application design techniques for information gathering.
   b) Explain the process of determining requirements.
   c) Explain any two approaches in requirement determination using agile methodologies. **(4+5+6)**

Unit – III

6. a) What is DFD ? What characteristics and functions of data in information systems are modeled by DFD ?
   b) Explain how logic modeling helps the subsequent steps in system analysis and design phase.
   c) What is conceptual data modeling ? What are deliverables and outcomes from conceptual modeling ? **(5+5+5)**
7. a) Explain the rules of dataflow diagramming.
   b) What is structured English and how is it similar and different from regular English ?
   c) What are inputs to design forms and reports ? Explain in brief. **(5+5+5)**

Unit – IV

8. a) Describe the process of designing interfaces and dialogues. What deliverables are produced from this process ?
   b) Define : i) Job design ii) Job enrichment
   c) Explain deliverables and outcomes from coding, acquiring hardware and testing. **(6+4+5)**
9. a) Write a short note on dialogue design.
   b) Explain process design and its importance.
   c) Describe approach to output design. **(5+5+5)**