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

BCACAC 266

Credit Based Fourth Semester B.C.A. Degree Examination, May/June 2016
(New Syllabus) (2013 –14 Batch Onwards) (Elective)
SYSTEM ANALYSIS AND DESIGN

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 System Development Life cycle ? **(10×2= 20)**

b) Who is a system analyst ?

c) Define business process reengineering.

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

e) What are the advantages of group interview ?

f) Define context diagram.

g) What are disruptive technologies ?

h) List any four deliverables of logic modelling.

i) Define conceptual data model.

j) Differentiate form and reports.

k) Define functional dependency.

l) What is unit testing and system testing ?

PART – B

Unit – I

2. a) What is a system ? What are its parts ? Explain.

   b) Explain the features of transaction processing system.

   c) What is prototyping ? What are its advantages ? How a prototype can be developed ?

(5+5+5)

3. a) Explain the following system concepts :

   i) Decomposition ii) Modularity

   iii) Coupling iv) Cohesion

   b) Describe the technical skills for the systems analysts.

   c) What is system analysis and design ? Explain the system analysis phase of SDLC.

(4+5+6)

Unit – II

4. a) Explain any two contemporary methods for determining system requirements.

   b) What are the major interview guidelines ?

   c) Explain agile usage-centered design technique for requirements determination.

(5+5+5)

5. a) What are CASE tools ? How can CASE tools be used to support requirements determination ?

   b) Explain any two traditional methods of collecting information system requirements.

   c) List and explain the three phases of planning game.

(5+6+4)

Unit – III

6. a) What is structured English ? Explain logic modelling using structured English.

   b) What is data flow diagram ? What are the guidelines for drawing DFDs ?

   c) With suitable examples explain relationships of different degrees in an E-R model.

(5+5+5)

7. a) Describe the deliverables and outcomes from process modelling.

   b) What is a decision table ? Explain with an example logic modelling using decision table.

   c) What are the guidelines for displaying tables and lists ? **(5+5+5)**

Unit – IV

8. a) State the guidelines for menu design.

   b) Explain the concept of normalization in database design.

   c) What is programming ? What are the five steps in accomplishing it ? **(5+5+5)**

9. a) Explain different types of validation tests.

   b) What are the sub-steps of problem clarification ?

   c) List and explain the different methods of interacting with the system. **(5+5+5)**