204204

May, 2019

BCA - II SEMESTER

Structured System Analysis and Design (BCA-17-109)

Time : 3 Hours]   [Max. Marks:75

Instructions :

1. *It is compulsory to answer all the questions (1.5 marks each) of Part-A in short.*

2. *Answer any four questions from Part-B in detail.*

3. *Different sub-parts of a question are to be attempted adjacent to each other.*

PART–A

1. (a) Which implementation approach is preferred when there are many people in an organization performing similar operations?   (1.5)

    (b) What is the purpose of Questionnaire while gathering information?   (1.5)

    (c) What factors need to be considered when deciding on the best system design?   (1.5)

    (d) Explain Acceptance Testing.   (1.5)

(e) Explain master and transaction file. (1.5)

(f) Explain various System Design Principles. (1.5)

(g) What is data dictionary? (1.5)

(h) Discuss the various types of forms. (1.5)

(i) Describe post implementation maintenance process. (1.5)

(j) What is integrated case tool? (1.5)

PART–B

2. (a) Describe the concept and procedure used in constructing DFDs. Give an example. (10)

   (b) What are various types of maintenance? Discuss. (5)

3. (a) Explain master and transaction file. (5)

   (b) Write a short note on fundamental of coding. What should be the criteria for selection of programming language? (10)

4. What is significance of software testing? Discuss in detail module level and system level testing methods. (15)

5. (a) What do you mean by alpha and beta testing? (5)

   (b) What do you mean by system implementation? Discuss different methods used for system implementation. (10)

6. (a) What do you mean by structured analysis and explain it with the help of tools? (7½)

   (b) Why is information gathering an important step of SDLC? Explain various information gathering techniques with their merits and demerits. (7½)

7. What is the purpose of documentation? Discuss the use of different types of documents prepared during documentation. (15)