

Roll No. ....62.11/00087....

Total No. of Questions : 9] [Total No. of Printed Pages : 4  
(2043)

**B.C.A. (CBCS) RUSA IVth Semester  
Examination**

**4212**

**SYSTEM ANALYSIS AND DESIGN**

Paper : BCA-0403

**Time : 3 Hours]**

**[Maximum Marks : 70**

*Note :-* Attempt *five* questions in all, selecting *one* question from each Unit. All questions carry equal marks. Question No. 1 is compulsory.

**Unit-I**

**(Compulsory Question)**

1. (A) True or False :

- (i) Top down integration testing uses stubs.
- (ii) Software maintenance cost is expensive in comparison to software development.
- (iii) The audit trail is test data used by the system auditor.

**CA-748**

( 1 )

Turn Over

(iv) Flow of information in an organization is always vertical.

(v) In the analysis phase, the development of the program specification occurs, which is a clear statement of the goals and objective of the project.

(B) Multiple Choice Questions :

(vi) Decision tree uses :

- (a) Nodes and branches
- (b) Consequences of various alternates
- (c) Rules and actions
- (d) Pictorial deputation of conditions

(vii) What is the major goal of System Analysis and Design ?

- ☒ (a) Improve organizational system
- ☒ (b) Communication
- ☒ (c) Give instructions
- ☒ (d) Architecture of building

(viii) The ..... determines whether the project should go forward.

- ☒ (a) Requirement gathering
- ☒ (b) Maintenance
- ☒ (c) Feasibility study
- ☒ (d) Testing

(ix) During system study, data can be collected through :

- ☒ (a) Questionnaires
- ☒ (b) On site observations
- ☒ (c) Interviews
- ☒ (d) All of these

(x) In the maintenance Phase the product must be tested against previous test cases. This is known as ..... testing.

- (a) Unit
- ☒ (b) Alpha
- (c) Regression
- (d) Integration

1×10=10

(C) Short Answer Type Questions :

- ☒ (i) What is a Design Document ?
- ☒ (ii) What is Economic Feasibility ?

(iii) Discuss the role of Database Administrator.

(iv) What is Data Dictionary ?

(v) What is the need of system maintenance ?

4×5=20

### Unit-II

10 each

2. Explain the multi-faceted role of the Analyst.

3. Throw some light on the issues that are to be kept in mind while project selection.

### Unit-III

10 each

4. Describe the various steps in Feasibility Analysis.

5. Distinguish between initial investigation and feasibility study. In what way are they related ?

### Unit-IV

10 each

6. Explain decision trees and tables in detail. Use an example of your own illustration

7. What do you mean by levelling in DFDs ? Explain with the help of an example.

### Unit-V

10 each

8. Discuss the concept of modularization. What are the various module specification ?

9. Distinguish between system maintenance and enhancement.