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Total No. of Questions : 9]
(2042)

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

3750

SYSTEM ANALYSIS AND DESIGN

Paper : BCA-0403

Time : 3 Hours]

[Maximum Marks : 70

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

Unit-I

(Compulsory Question)

1. (A) True *or* False :

- (i) Feasibility study determines whether the project should go further.
- (ii) System analysis is a process which is done on existing model or newly created model.
- (iii) The process of transforming a model into source code is known as Reverse Engineering.

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(iv) Requirement gathering is the detailed study about a particular problem.

(v) Decision tree uses rules and actions for demonstration.

(B) Multiple Choice Questions :

(vi) Documentation is prepared :

- (a) At system design
- (b) At system analysis
- (c) At every stage
- (d) At system development

(vii) Actual programming of software code is done in Phase of SDLC.

- (a) Analysis
- (b) Implementation
- (c) Design
- (d) Testing

(viii) Which of the following is not the symbol of DFD ?

- (a) Square
- (b) Triangle
- (c) Open rectangle
- (d) Circle

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(2)

(ix) Decision table is :

- (a) A way of representing multiple conditions
- (b) A way to get an accurate picture of the system
- (c) A way of representing the information flow
- (d) All of these

(x) Enhancement, bug fixes, upgradation of software are done during the phase of SDLC.

- (a) Analysis
- (b) Maintenance
- (c) Implementation
- (d) Testing

(C) Short Answer Type Questions :

- (i) Discuss integration testing.
- (ii) Discuss top down approach to system planning.
- (iii) Define operational feasibility study.
- (iv) Maintenance is an ongoing process. Discuss.
- (v) What are the qualities to be manifested for a System Analyst ?

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Unit-II

2. Explain SDLC in detail.
3. What are the various sources of requests for initial investigation of a project ?

Unit-III

4. What considerations are involved in feasibility analysis ? Which consideration do you think is most crucial ? Why ?
5. Define and explain the procedure if cost/benefit determination.

Unit-IV

6. What are the different tools for gathering information ?
7. "A data dictionary is a structured repository of data about data." Discuss.

Unit-V

8. Why do we Test System? How is important testing ? Discuss.
9. Why is documentation necessary in every step of project development ?