

B.C.A. (Part-III) Examination, 2017

System Design Concepts (Paper - 332)

[Time: Three Hours]

[Maximum Marks: 100]

Part – I

Each question is of 2 marks.

Words limit for the answers is 40 words.

1. a) What do you mean by the term “System”?
- b) What is prototyping?
- c) What do you mean by Entity Relationship Diagram?
- d) Define Data Modelling.
- e) What is the Need of System Testing?
- f) Why we do documentation for a system?
- g) Explain any three objective of s/w Project Planning.
- h) Explain any three design Principals.
- i) What do you mean by Information System?
- j) Explain various level of a management.

Part – II

Each question is of 4 marks

2. What do you mean by system development approach, explain in brief.
3. Explain Data Flow Diagram.
4. Differentiate Verification and Validation.
5. Define COCOMO Model.
6. Explain major components of MIS.

Part – III

Aims Tutorial

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Each question is of 12 marks.

7. a) Explain System Development Process.
b) What is Feasibility study?

OR

Explain SDLC in detail.

8. a) What is DFD Notations?
b) What is Structure chart?

OR

- a) Explain Conversion process of Data Flow Diagram to Structure chart.
b) Explain some of the interface design tools.

9. a) Explain White Box and Black Box Testing.
b) Explain Integration Testing.

OR

- a) Explain System Maintenance.
b) Explain Testing Principles in brief.

10. a) What do you mean by Decomposition Techniques.
b) Explain Data Design.

OR

- a) What is Procedural design?
b) What is Object Oriented Concepts?

11. a) Explain Types of Information System?
b) Explain Simon's Model of decision making.

OR

- a) Explain structured V/s Un-structured decision.
b) Explain Formal V/s Informal System.

