

Dr. Babasaheb Ambedkar Open University
Term End Examination February – 2026

Course	: BCA	Date	: 24-Feb-25
Subject Code	: BCAN-305(NEW)	Time	: 11:30am to 01:45pm
Subject Name	: System Analysis and Design	Duration	: 02.15 Hours
		Max. Marks	: 70

Section A

Answer the following (Attempt any three) (30)

1. Explain Elements and Types of the system.
2. Explain SDLC in Detail.
3. Explain Interview and Questionnaires Fact-Finding in detail.
4. Explain File Design in detail.
5. Explain Decision Table for complex logic specification.

Section B

Answer the following (Attempt any four) (20)

1. Explain Characteristics of System.
2. Explain DFD symbols in detail.
3. What is Prototyping? Explain its advantages and disadvantages.
4. Write a note on Testing.
5. Explain System Maintenance and Management Issues.
6. Explain Relationship Cardinality and Participation.

Section C

Part – A (Multiple Choice Questions) (10)

- 1 CASE stands for _____.
A Computer-aided Service Engineering B Computer-aided Security Engineering
C Computer-aided Structure Engineering D Computer-aided System Engineering
- 2 SDLC stands for _____.
A System Development Life Cycle B Software Development Life Cycle
C Security Development Life Cycle D Structure Development Life Cycle
- 3 DFD stands for _____.
A Design Flow Diagram B Database Flow Diagram
C Data Flow Diagram D Development Flow Diagram
- 4 ERD stands for _____.
A Entity Relationship Data B Entity Relationship Diagram
C Entity Relationship Design D Entity Relationship Development

- 5 ATM stands for _____.
 A Automatic Testing Machine B Automatic Transaction Machine
 C Automatic Transcript Machine D Automatic Teller Machine
- 6 CSL stands for _____.
 A Conceptual Schema Language B Conceptual System Language
 C Conceptual Security Language D Conceptual Structure Language
- 7 BCNF stands for _____.
 A Basic Codd Normal Form B Boyce Codd Normal Form
 C Boys Codd Normal Form D Big Codd Normal Form
- 8 Which of the following are the properties of entities?
 A Groups B Table
 C Attributes D Switchboards
- 9 CG stands for _____.
 A Conceptual Graph B Computer Graph
 C Codd Graph D Common Graph
- 10 Structured English is representation of English as
 A Data B Language
 C Structures D All of Above

Part – B (Do as Directed)

(10)

- 1 Define: System
- 2 What is Scheduling?
- 3 Define: Closed System
- 4 What is Weak Entity?
- 5 Define: Derived Attribute
- 6 Define: Questionnaire
- 7 What is Trait?
- 8 Define: Entity
- 9 What is Normalization?
- 10 Define: Data
