

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

Course	: BCAR/DCAR	Date	: 17-Feb-26
Subject Code	: BCAR/DCAR-205	Time	: 03:00pm to 05:15pm
Subject Name	: System Analysis and Design	Duration	: 02.15 Hours
		Max. Marks	: 70

Section A

Answer the following (Attempt any three) **(30)**

1. Explain the concept of system and write down its important characteristics?
2. Explain the rules of normalization?
3. Explain Fact finding and interview in details.
4. Explain System Designing.
5. Explain physical and logical database design?

Section B

Answer the following (Attempt any four) (20)

1. What are the various symbols of data flow diagram?
2. What is the responsibility of a system analyst?
3. What is System Development Life cycle also explain Feasibility Study and Analysis.
4. Discuss the pros and cons of the various tools of doing analysis.
5. Explain software testing?
6. Write a note on different types of UML Diagrams.

Section C

Part – A (Multiple Choice Questions) (10)

- 1 System_____ is the process of planning a new business system or one to replace or complement an existing system

A analysis
B design
C overview
D error

- 2 In the E-R diagram, which statement is true ?



- A Both tables carry equal primary key attributes.
- B Table X carries more key attributes than Y.
- C Table Y carries more key attributes than X.
- D None of above.

- 3 Which toolset will focus on business requirements early in the development process ?
- A planning Toolsets B design Toolset
C analysis Toolset D code generation Toolset

- 4 From the given below identify the tool which not used for structured analysis.
A Use Case
C Decision Tree
B Structured English
D Data Dictionary
- 5 Which is not a third generation language ?
A FORTRAN
C Unix
B COBOL
D C++
- 6 Which among the following is the combination of two or more keys ?
A Primary Key
C Concatenated Key
B Secondary Key
D Foreign Key
- 7 Software Testing means _____.
A Validating software program
C Validating and Verifying product.
B Verifying software application.
D All of the above.
- 8 _____deals with protecting individuals' systems from being accessed and used without the permission/knowledge of the concerned individuals.
A Privacy
C Audit trail
B Integrity
D Audit method
- 9 _____relationship between two or more Use-Cases enforce compulsion.
A Extends
C Include
B One-to-Many
D None of the above.
- 10 In class diagram, _____is used if two or more classes have common attributes.
A Association
C Generalization
B Aggregation
D all of these