

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

Course : BCA_OLD
Subject Code : BCAR-402
Subject Name : Software Engineering

Date : 12-07-2026
Time : 03:00pm to 05:15pm
Duration : 02.15 Hours
Max. Marks : 70

Section A

Answer the following (Attempt any three)

(30)

1. Explain Life Cycle Model.
2. Describe Waterfall Model.
3. Explain Role of Software Project Manage.
4. Write a short note on Scheduling.
5. Explain Data Flow Diagram (DFD).

Section B

Answer the following (Attempt any four)

(20)

1. Explain Unified Modeling Language (UML).
2. Write short note on cohesion and Low coupling.
3. Explain SDLC.
4. Explain Boundary value analysis.
5. Explain black-box and white-box testing methods.
6. Write a short note on Integration.

Section C

Part – A (Multiple Choice Questions)

(10)

- Baseline is used in _____.
A Project planning
B Requirement gathering
C Configuration management
D Quality management
- _____ testing is the next level of acceptance testing.
A Alpha
B Beta
C Both A & B
D None of Above
- White-box testing is also called _____.
A Black-box testing
B Behavioral testing
C Glass-box testing
D Grey-box testing
- White box testing is a type of _____ testing.
A Structural testing
B User-acceptance testing
C Functional testing
D Black-box testing
- _____ is a measure of the functional strength of a module.
A Coupling
B Encapsulation
C Modularity
D Cohesion
- In the Use-case diagram user is called _____.
A Worker
B Participant
C Actor
D Client

- 7 In the sequence diagram validation is done by _____.
A Boundary B Controller
C Actor D Entity
- 8 _____ metric is enhanced version of the function point metric.
A Object Point B Function Count
C Line Point D Feature Point
- 9 LOC stands for _____.
A Logical Output Control B Level of Control
C Lines of Code D Length of Line
- 10 COCOMO stands for _____.
A Common Cost Model B Computer Cost Module
C Code Cost Model D Constructive Cost Model

Part – B (Do as Directed)

(10)

- 1 Integration testing requires a minimum of 2 modules to test. (True/ False)
- 2 Acceptance is the last level of testing (True/ False)
- 3 A node with more than one arrow leaving is called Leaf node. (True/ False)
- 4 Behavioral system analysis models focus on events, states, and state transitions. (True/ False)
- 5 Relationship between Country and State is One-to-Many. (True/ False)
- 6 In the DFD, Entity can be denoted by diamond symbol. (True/ False)
- 7 In the ER-Diagram attributes can be represented by Ellipse (or Oval) symbol. (True/ False)
- 8 Flow chart represents a graphical representation of a complex logic structure. (True/ False)
- 9 Requirements Prioritization is used to resolve conflicting requirements. (True/ False)
- 10 CPM stands for Critical Path Method. (True/ False)
