

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

Course : BSCIT
Subject Code : BSCIT-303
Subject Name : Software Engineering

Date : 18/07/2026
Time : 03:00pm to 05:15pm
Duration : 02.15 Hours
Max. Marks : 70

Section A

Answer the following (Attempt any three) (30)

1. Explain the role of a Software Project Manager in detail.
2. Explain Requirement Specification (SRS). Discuss the characteristics of a good SRS document.
3. Explain Requirement Elicitation techniques used in software development.
4. Discuss Cohesion and Coupling with suitable examples.
5. List and explain various types of Testing in detail.

Section B

Answer the following (Attempt any four) (20)

1. Discuss LOC (Lines of Code) and Function Point (FP) Metrics.
2. Discuss the importance of Context Diagram and Levels of DFD.
3. Explain Software Maintenance.
4. Explain Entity Relationship Diagram (ERD) and different types of relationships.
5. Explain Class Diagram and Sequence Diagram.
6. Explain Unit Testing and Integration Testing.

Section C

Part – A (Multiple Choice Questions) (10)

- document acts as an agreement between the customer and the development team
A) SDD B) DFD
C) SRS D) ERD
- Which activity is performed before project approval?
A) Coding B) Testing
C) Feasibility Study D) Maintenance
- Which SDLC model is suitable for very small projects developed by one or two programmers?
A) Spiral Model B) Build and Fix Model
C) Waterfall Model D) Prototyping Model
- Which requirement specifies performance, security and reliability of software?
A) Functional Requirement B) User Requirement
C) Non-Functional Requirement D) Design Requirement
- Which UML diagram represents the static structure of a system?
A) Sequence Diagram B) Activity Diagram
C) Use Case Diagram D) Class Diagram
- In ERD, a rectangle represents:
A) Relationship B) Entity
C) Attribute D) Constraint

A) High Coupling
B) Low Cohesion
C) Low Coupling
D) High Dependency

A) White Box Testing
B) Black Box Testing
C) Integration Testing
D) Unit Testing

A) Acceptance Testing
B) System Testing
C) Integration Testing
D) Performance Testing

A) Build and Fix Model B) Waterfall Model
C) Spiral Model D) Prototype Model

(10)

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