

B.Sc.(IT) Semester - 4 (CBCS) Examination**March/April-2026 [NEW COURSE]****SAD, Software Quality Assurance and Testing(Core)****Time: 2:30 Hours****Marks: 70****Instructions:**

1. All questions are compulsory.
 2. Figures to the right indicate marks.
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- Que. 1 (A) Attempt following questions. (03)
- 1) DFD stands for _____.
 - 2) SDLC stands for _____.
 - 3) QC stands for _____.
- Que. 1 (B) Attempt following. (Attempt Any Two) (06)
- 1) Explain Advantages and Disadvantages of Decision Tree.
 - 2) Write note on DFD.
 - 3) Explain Role of System Analyst.
 - 4) Explain Software engineering in brief.
- Que. 1 (C) Attempt following. (Attempt Any One) (05)
- 1) Explain fact finding techniques in detail.
 - 2) Explain Quality Assurance Activities in detail.
- Que. 2 (A) Attempt following questions. (03)
- 1) What is Bug?
 - 2) What is an Error?
 - 3) What is Failure?
- Que. 2 (B) Attempt following. (Attempt Any Two) (06)
- 1) Explain Integration Testing and System Testing in brief.
 - 2) Explain Static Testing in detail.
 - 3) Write note on Whitebox testing.
 - 4) Explain Test case and Test Plan of Testing Artefacts.
- Que. 2 (C) Attempt following. (Attempt Any One) (05)
- 1) Explain dynamic testing in detail.
 - 2) Explain Non-functional Testing in detail.
- Que. 3 (A) Attempt following questions. (03)
- 1) What is Freeware Software?
 - 2) What is Shareware Software?
 - 3) QTP stands for _____.
- Que. 3 (B) Attempt following. (Attempt Any Two) (06)
- 1) Explain Iterative Model in detail.
 - 2) Explain Prototyping Model in detail.
 - 3) Explain Load runner in detail.
 - 4) Write note on Relational Suite.

- Que. 3 (C) Attempt following: (Attempt Any One) (05)
- 1) Explain Waterfall Model in detail.
 - 2) Explain V- Model in detail.
- Que. 4 (A) Attempt following questions. (03)
- 1) List out Automated Estimation Tools.
 - 2) LOC stands for _____.
 - 3) COCOMO stands for _____.
- Que. 4 (B) Attempt following: (Attempt Any Two) (06)
- 1) List out various graphical reporting tools explain any one.
 - 2) Explain concept of Project Management in brief.
 - 3) Write note on Decomposition Techniques.
 - 4) Explain effort estimation techniques.
- Que. 4 (C) Attempt following: (Attempt Any One) (05)
- 1) Explain PERT chart in detail.
 - 2) Write short note on COCOMO.
- Que. 5 (A) Attempt following questions. (03)
- 1) Visio is Product of _____.
 - 2) UML stands for _____.
 - 3) CAD stands for _____.
- Que. 5 (B) Attempt following: (Attempt Any Two) (06)
- 1) Explain goal of UML in brief.
 - 2) Explain Use Case Diagram in brief.
 - 3) Write note on Class Diagram.
 - 4) What is MS – Project? How it is used for Controlling and Managing project?
- Que. 5 (C) Attempt following: (Attempt Any One) (05)
- 1) Explain MS – VISIO for designing & Documentation.
 - 2) Explain Activity Diagram in detail.
