

B.Sc.(IT) Semester - 4 (CBCS) Examination**March/April-2025 [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) Answer the following questions (03)
- 1) What is Software Engineering?
 - 2) What is Business System?
 - 3) What is QC?
- Que.1(B) Answer the following questions (ANY TWO) (06)
- 1) What is DFD? Explain DFD and Data.
 - 2) Explain role of System Analyst.
 - 3) Explain fact-finding techniques.
 - 4) Explain Feasibility study.
- Que.1(C) Answer the following questions (ANY ONE) (05)
- 1) Explain Quality assurance activities.
 - 2) What is SDLC? Explain it.
- Que.2(A) Answer the following questions (03)
- 1) What is Dynamic Testing?
 - 2) What is Error?
 - 3) What is Test case?
- Que.2(B) Answer the following questions (ANY TWO) (06)
- 1) Explain Software faults and failures.
 - 2) Explain level of testing.
 - 3) Explain non-functional testing.
 - 4) Explain Static Testing.
- Que.2(C) Answer the following questions (ANY ONE) (05)
- 1) Explain Black Box Testing.
 - 2) Explain White Box Testing.
- Que.3(A) Answer the following questions (03)
- 1) What is Functional Testing tool?
 - 2) What is Performance Testing tool?
 - 3) What is QTP?
- Que.3(B) Answer the following questions (ANY TWO) (06)
- 1) Explain Freeware, Shareware, licensed tools.
 - 2) What is V-Model? Explain.
 - 3) Explain prototyping model.
 - 4) What is Rational Suite? Explain.
- Que.3(C) Answer the following questions (ANY ONE) (05)
- 1) Explain waterfall model.
 - 2) Explain iterative model.
- Que.4(A) Answer the following questions (03)
- 1) Full form of COCOMO _____.
 - 2) Full form of PERT chart is _____.
 - 3) Full form of FP (in project management) is _____.

- Que.4(B) Answer the following questions (ANY TWO) (06)
- 1) Explain Project Management.
 - 2) What is Task network? Explain it.
 - 3) What is scheduling methods? Explain it.
 - 4) Explain Automated Estimation Tools.
- Que.4(C) Answer the following questions (ANY ONE) (05)
- 1) Explain Graphical reporting Tools.
 - 2) Explain Effort estimation techniques.
- Que.5(A) Answer the following questions (03)
- 1) What is Project management?
 - 2) What is UML?
 - 3) What is CAD?
- Que.5(B) Answer the following questions (ANY TWO) (06)
- 1) Explain use case diagram.
 - 2) What is MS-Project? Explain it.
 - 3) Explain activity diagram.
 - 4) What is MS-Visio? Explain it.
- Que.5(C) Answer the following questions (ANY ONE) (05)
- 1) Explain Class Diagrams.
 - 2) Explain use case diagram for online shopping.
