

B.C.A 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 following Questions. (03)
- 1) _____ is full form of SDLC.
 - 2) _____ fact-finding technique is best suited for gathering a large amount of data from many users.
 - 3) A table that lists all possible conditions and corresponding actions is _____.
- Que.1(B) Answer Any Two. (06)
- 1) Explain different role of System Analyst.
 - 2) Explain Fact Finding Techniques.
 - 3) Explain Data Dictionary.
 - 4) What is QA and QC? Differentiate it.
- Que.1(C) Answer Any One. (05)
- 1) Write short note on Decision Tree and Decision Table.
 - 2) Explain DFD with example.
- Que.2(A) Answer following Questions. (03)
- 1) A mistake made by developer while writing a code is known as _____.
 - 2) _____ describes expected input, actions and expected output.
 - 3) Testing internal logic and structure of code is _____ testing.
- Que.2(B) Answer Any Two. (06)
- 1) What is Grey Box Testing?
 - 2) List out non-functional testing techniques. Explain any two.
 - 3) Explain Test Plan and Test Suits.
 - 4) Explain Informal Review and Technical Review.
- Que.2(C) Answer Any One. (05)
- 1) Write short note on Black Box testing and White Box Testing.
 - 2) Write short note on Test Levels.
- Que.3(A) Answer following Questions (03)
- 1) _____ is a sequential model where each phase must be completed before the next begins.
 - 2) In _____ model project is divided into small cycles, with improvements in each iteration.
 - 3) _____ is full form of QTP.
- Que.3(B) Answer Any Two. (06)
- 1) Explain freeware, shareware and licensed model.
 - 2) Explain WinRunner.
 - 3) Explain Big Bang Model.
 - 4) Explain V Model.
- Que.3(C) Answer Any One. (05)
- 1) Explain QTP and Rational Suit.
 - 2) Explain Waterfall and Iterative Model.

- Que.4(A) Answer following Questions. (03)
- 1) _____ is used to estimate project effort, cost and schedule based on historical data.
 - 2) Full form of PERT is _____.
 - 3) What is primary purpose of effort estimation in project management.
- Que.4(B) Answer Any Two. (06)
- 1) Explain Project costing based on matrices.
 - 2) Explain Automated Estimation tools.
 - 3) Explain Task Network and Scheduling methods.
 - 4) Write short note on Graphical reporting tool.
- Que.4(C) Answer Any One. (05)
- 1) Write short note on Time Line Chart and PERT Chart.
 - 2) Write short note on Empirical Project Estimation Techniques.
- Que.5(A) Answer following Questions. (03)
- 1) Full form of UML is _____.
 - 2) Which file format is commonly used to save MS Visio diagrams?
 - 3) Which company develops MS-Project?
- Que.5(B) Answer Any Two. (06)
- 1) Explain Class Diagram.
 - 2) Explain Use Case Diagram.
 - 3) Explain Activity Diagram.
 - 4) What is MS-Visio?
- Que.5(C) Answer Any One. (05)
- 1) What is UML ? Explain its advantages.
 - 2) Write short note on MS-Project.
