

P.G.D.C.A Semester - 2 (CBCS) Examination
March/April – 2025 [As Per Syllabus Year-2018]
SAD, Software Quality Assurance & 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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| Q-1 (A) | Attempt following questions. | (03) |
| | 1) What is System? | |
| | 2) What is Subsystem? | |
| | 3) SDLC stands for _____. | |
| Q-1 (B) | Attempt following. (Attempt Any Two) | (06) |
| | 1) Explain different role of System Analyst. | |
| | 2) Explain Software engineering in brief. | |
| | 3) Explain fact finding techniques in detail. | |
| Q-1 (C) | Attempt following. (Attempt Any One) | (05) |
| | 1) Explain DFD with example. | |
| | 2) Explain SDLC in detail. | |
| Q-2 (A) | Attempt following questions. | (03) |
| | 1) What is Bug? | |
| | 2) What is an Error? | |
| | 3) What is Fault? | |
| Q-2 (B) | Attempt following. (Attempt Any Two) | (06) |
| | 1) Define: Test Script and Test Suite in brief. | |
| | 2) Write short note on White Box testing. | |
| | 3) Explain Grey Box Testing in detail. | |
| Q-2 (C) | Attempt following. (Attempt Any One) | (05) |
| | 1) Explain Non-functional Testing in detail. | |
| | 2) Write short note on Test Levels. | |
| Q-3 (A) | Attempt following questions. | (03) |
| | 1) _____ known as Verification and Validation model. | |
| | 2) What is Freeware Software? | |
| | 3) What is Shareware Software? | |
| Q-3 (B) | Attempt following. (Attempt Any Two) | (06) |
| | 1) Explain Big Bang Model in brief. | |
| | 2) Explain Load runner in detail. | |
| | 3) Explain Prototyping model in brief. | |
| Q-3 (C) | Attempt following. (Attempt Any One) | (05) |
| | 1) Explain V- Model in detail. | |
| | 2) Explain Waterfall Model in detail. | |
| Q-4 (A) | Attempt following questions. | (03) |
| | 1) What is Project Management? | |
| | 2) What is Decomposition? | |
| | 3) COCOMO stands for _____. | |
| Q-4 (B) | Attempt following. (Attempt Any Two) | (06) |
| | 1) Explain Automated Estimation tools. | |
| | 2) Explain Project costing based on matrices. | |
| | 3) Explain effort estimation techniques. | |

- Q-4 (C) Attempt following. (Attempt Any One) (05)
- 1) Explain PERT chart in detail.
 - 2) Write short note on Graphical reporting tool.
- Q-5(A) Attempt following questions. (03)
- 1) QA stands for _____.
 - 2) UML stands for _____.
 - 3) CAD stands for _____.
- Q-5(B) Attempt following. (Attempt Any Two) (06)
- 1) Explain Class Diagram.
 - 2) Explain difference between QA V/S QC.
 - 3) Explain Quality Assurance activities in detail.
- Q-5(C) Attempt following. (Attempt Any One) (05)
- 1) Explain Use Case Diagram in detail.
 - 2) Write short note on UML.
