

B.Sc.(IT) Semester - 4 (CBCS) Examination**March/April-2023 [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.
-

Q.1(A) Answer the following questions. (03)

1. DFD stands for _____.
2. SDLC stands for _____.
3. QC stands for _____.

Q.1(B) Answer the following questions. (Any Two) (06)

1. Write note on: DFD.
2. Differentiate QA V/S QC.
3. Explain Software engineering in brief.
4. Explain in brief Decision Tree.

Q.1(C) Answer the following questions. (Any One) (05)

1. Explain Quality Assurance Activities in detail.
2. Explain fact finding techniques in detail.

Q.2(A) Answer the following questions. (03)

1. Software testing means executing a program in order to understand its behavior. (True / False)
2. What is Test Script?
3. Load Testing is non-functional testing. (True/False)

Q.2(B) Answer the following questions. (Any Two) (06)

1. Define: Bug, Defect and failure in brief.
2. Explain Test Script, Test Suite in brief.
3. Write note on Decision table testing.
4. Write note on Whitebox testing.

Q.2(C) Answer the following questions. (Any One) (05)

1. Explain Static Testing in detail.
2. Explain Non-functional Testing in detail.

Q.3(A) Answer the following questions. (03)

1. Last phase of waterfall model is _____.
2. QTP stands for _____.
3. _____ known as Verification and Validation model.

Q.3(B) Answer the following questions. (Any Two) (06)

1. Explain Freeware and Shareware Software.
2. Explain Prototyping model in detail.
3. Write note on : QTP.
4. Explain Load runner in detail.

- Q.3(C) Answer the following questions. (Any One) (05)**
1. Explain Waterfall Model in detail.
 2. Explain V-Model in detail.
- Q.4(A) Answer the following questions. (03)**
1. PERT stands for _____.
 2. SLIM stands for _____.
 3. COCOMO stands for _____.
- Q.4(B) Answer the following questions. (Any Two) (06)**
1. Explain Project Costing based on metrics.
 2. Explain effort estimation techniques.
 3. Explain project costing based on algorithmic methods.
 4. Explain Automated Estimation Tools.
- Q.4(C) Answer the following questions. (Any One) (05)**
1. Explain PERT chart in detail.
 2. Explain Decomposition Techniques.
- Q.5(A) Answer the following questions. (03)**
1. CAD stands for _____.
 2. Visio is Product of _____.
 3. UML stands for _____.
- Q.5(B) Answer the following questions. (Any Two) (06)**
1. Write note on MS Project.
 2. Explain Versions of MS Visio.
 3. Explain goal of UML in brief.
 4. Explain Use Case Diagram in brief.
- Q.5(C) Answer the following questions. (Any One) (05)**
1. Explain Activity Diagram in detail.
 2. Explain Class Diagram in detail.
