

**B.Sc.(IT) Semester - 4 (CBCS) Examination****April/May -2022 [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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- Q.1(A) Answer the following questions. (03)**
1. What is System analysis?
  2. Give full form : SAD
  3. Define: QC.
- Q.1(B) Answer the following question. (Any Two) (06)**
1. Write a short note on : Data Dictionary
  2. Explain: What is Software Engineering? How it is useful in developing software?
  3. Explain: SDLC model shortly.
  4. Give difference between QA and QC.
- Q.1(C) Answer the following question. (Any one) (05)**
1. What is Fact Finding Technique? Explain in detail.
  2. Describe DFD and also explain its symbols.
- Q.2(A) Answer the following questions. (03)**
1. Define: Bug.
  2. Define: Error.
  3. Define: Defect.
- Q.2(B) Answer the following question. (Any Two) (06)**
1. Describe : Software Testing.
  2. What is Test levels? Explain any one in detail.
  3. Explain shortly : Test Case, Test Script, Test Suite.
  4. Define following : Performance Testing, Stress Testing, Security Testing.
- Q.2(C) Answer the following question. (Any one) (05)**
1. Write a short note : Black Box Testing, White Box Testing and Grey Box Testing.
  2. Explain Static Testing and their types.
- Q.3(A) Answer the following questions. (03)**
1. SDLC Model introduced in \_\_\_\_\_year.
  2. When Prototyping Model is used?
  3. Which model is generally used for academic project?
- Q.3(B) Answer the following question. (Any Two) (06)**
1. What is WinRunner?
  2. What are the advantage and disadvantage Spiral model?
  3. What is LoadRunner?
  4. Difference: Freeware v/s Shareware.
- Q.3(C) Answer the following question. (Any one) (05)**
1. Write a short note on: Prototyping Model.
  2. Write a short note on: V-Model.

- Q.4(A) **Answer the following questions.** (03)
1. Define: Estimation.
  2. Define: Project Costing.
  3. Give Full form of : Pert.
- Q.4(B) **Answer the following question. (Any Two)** (06)
1. Explain COCOMO II Model.
  2. What is Decomposition Techniques?
  3. Describe : Graphical Tools.
  4. Explain monitoring and controlling process.
- Q.4(C) **Answer the following question. (Any one)** (05)
1. Write a short note on: Pert Chart.
  2. Write a short note on: Gantt Chart.
- Q.5(A) **Answer the following questions.** (03)
1. Define: Aggregation.
  2. What is CAD?
  3. Give Full Form : UML
- Q.5(B) **Answer the following question. (Any Two)** (06)
1. Describe : Features of MS-Project.
  2. Describe : Activity Diagram with example.
  3. Describe : Class Diagram with example.
  4. Write down the steps to create diagram in MS-Visio.
- Q.5(C) **Answer the following question. (Any one)** (05)
1. What is UML? How it can be used within the project?
  2. What is the Use Case Diagram? Explain with proper example.

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