

B.Sc.(IT) Semester - 4 (CBCS) Examination**March/April-2024 [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) |
| | <ol style="list-style-type: none">1. What is Fact Finding Techniques?2. What is Information System?3. What is Software Engineering? | |
| Que-1(B) | Answer the following questions. (ANY TWO) | (06) |
| | <ol style="list-style-type: none">1. Explain Feasibility Study.2. Explain DFD and Data.3. Draw decision table for one condition $a > b$.4. Write Quality assurance activities. | |
| Que-1(C) | Answer the following questions. (ANY ONE) | (05) |
| | <ol style="list-style-type: none">1. Explain SDLC.2. Explain role of System Analyst. | |
| Que-2(A) | Answer the following questions. | (03) |
| | <ol style="list-style-type: none">1. What is Bug?2. What is Defect?3. What is static Testing? | |
| Que-2(B) | Answer the following questions. (ANY TWO) | (06) |
| | <ol style="list-style-type: none">1. Explain Grey Box Testing.2. Explain Testing Artefacts.3. Explain Software faults and failures.4. Differentiate: Black Box testing and White Box testing. | |
| Que-2(C) | Answer the following questions. (ANY ONE) | (05) |
| | <ol style="list-style-type: none">1. Explain level of testing.2. Explain non-functional testing. | |
| Que-3(A) | Answer the following questions. | (03) |
| | <ol style="list-style-type: none">1. What is QTP?2. What is Freeware?3. What is Shareware? | |
| Que-3(B) | Answer the following questions. (ANY TWO) | (06) |
| | <ol style="list-style-type: none">1. Explain Win Runner.2. Explain Load Runner.3. What is Rational Suite? Explain.4. What is waterfall model? Explain. | |
| Que-3(C) | Answer the following questions. (ANY ONE) | (05) |
| | <ol style="list-style-type: none">1. Explain V-Model.2. Explain Spiral Model. | |
| Que-4(A) | Answer the following questions. | (03) |
| | <ol style="list-style-type: none">1. What is COCOMO?2. What is PERT chart?3. What is Timeline chart? | |

- Que-4(B) Answer the following questions. (ANY TWO) (06)
1. Explain Project Management.
 2. Explain Empirical Project Estimation Techniques.
 3. Explain Automated Estimation Tools.
 4. Explain Graphical reporting Tools.
- Que-4(C) Answer the following questions. (ANY ONE) (05)
1. Explain Effort Estimation Techniques.
 2. Explain Task network and scheduling methods.
- Que-5(A) Answer the following questions. (03)
1. What is CAD?
 2. What is UML?
 3. ____ is the extension of Vision Drawing file.
- Que-5(B) Answer the following questions. (ANY TWO) (06)
1. Explain MS-Project.
 2. Explain MS-Visio.
 3. Explain Advantages of UML.
 4. Explain class diagram for Online Shopping.
- Que-5(C) Answer the following questions. (ANY ONE) (05)
1. Explain Activity Diagram.
 2. Explain Use Case Diagram.
