



JAF-003-1033001

Seat No. _____

B. C. A. (Sem. III) (CBCS) Examination

November - 2019

CS-13 : SAD, Software Quality Assurance and Testing

Faculty Code : 003

Subject Code : 1033001

Time : $2\frac{1}{2}$ Hours]

[Total Marks : 70

- 1 (a) Objective type questions : 4
- (1) What is Information System ?
 - (2) QAA stands for _____.
 - (3) The Decision sequence starts from _____.
 - (4) What is Software Engineering ?
- (b) Attempt any **one** out of two : 2
- (1) Explain Data Dictionary.
 - (2) Explain Context Level DFD.
- (c) Attempt any **one** out of two : 3
- (1) Give difference between Quality Assurance and Quality Control.
 - (2) Explain the role of System Analyst.
- (d) Attempt any **one** out of two : 5
- (1) Write a note on SDLC.
 - (2) Explain Fact Finding Techniques in detail.

- 2 (a) Objective type questions : 4
- (1) The interface testing can be defined under _____.
 - (2) _____ testing is to determine the limit, at which the system or software or hardware breaks ?
 - (3) Test Harness has which two main parts ?
 - (4) BVA stands for _____.
- (b) Attempt any **one** out of two : 2
- (1) Explain Software Faults and Failures.
 - (2) Differentiate: Functional Testing and Non-Functional Testing.
- (c) Attempt any **one** out of two : 3
- (1) Explain Informal Review, Technical Review and Inspection.
 - (2) Explain Gray Box Testing.
- (d) Attempt any **one** out of two : 5
- (1) Explain White Box Testing in detail.
 - (2) Write a note on Software Test levels in detail.
- 3 (a) Objective type questions : 4
- (1) Maintenance is the final phase in waterfall model. (True / False)
 - (2) Which Model should be used when the desired system needs to have a lot of interaction with the end users ?
 - (3) Give the name of different tools that are involved as a part of Load Runner.
 - (4) QTP provides which views and ways to modify a test script ?
- (b) Attempt any **one** out of two : 2
- (1) Define the term: Freeware and Shareware.
 - (2) Explain Relational Suite.

- (c) Attempt any **one** out of two : 3
- (1) Explain Big Bang Model.
 - (2) What is V-Model ? How it is useful ?
- (d) Attempt any **one** out of two : 5
- (1) Explain Win Runner Testing tool.
 - (2) Explain Spiral Model in detail.
- 4 (a) Objective type questions: 4
- (1) List out Three Levels of COCOMO model.
 - (2) Which Estimation technique is performed with the help of mathematical equations ?
 - (3) CPI stands for _____.
 - (4) Timeline Chart also known as _____.
- (b) Attempt any **one** out of two : 2
- (1) Explain Task Network.
 - (2) Explain Decomposition Technique.
- (c) Attempt any **one** out of two : 3
- (1) Explain Automated Estimation Tools.
 - (2) What is Empirical Techniques ? Discuss Expert Judgment Technique.
- (d) Attempt any **one** out of two : 5
- (1) Explain different Graphical Representing Tools in brief.
 - (2) Write a note on PERT Chart.
- 5 (a) Objective type questions : 4
- (1) CAD stands for _____.
 - (2) UML was created by _____.
 - (3) The feature that hides object details is _____.
 - (4) What is an extension of Visio Drawing file ?

- (b) Attempt any **one** out of two : 2
- (1) What is Class Diagram ?
 - (2) Define the Terms :
 - (1) Abstraction
 - (2) Polymorphism.
- (c) Attempt any **one** out of two : 3
- (1) What is MS Project ? How it is used for Controlling and managing project ?
 - (2) Explain Use Case Diagram.
- (d) Attempt any **one** out of two : 5
- (1) What is MS VISIO ? How it is used in designing and documentation of project with example ?
 - (2) Write a note on Activity Diagram.
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