



SAS-003-2033001

Seat No. 030132

B. C. A. (Sem. III) (CBCS) (W.E.F. 2019) Examination

December - 2021

**CS - 13 : SAD, Software Quality Assurance &
Testing**

Faculty Code : 003

Subject Code : 2033001

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

[Total Marks : 70

Instruction : Attempt any five questions.

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| 1 | (a) | Objective type questions : | 4 |
| | (1) | What is system ? | |
| | (2) | Information Engineering is _____ phase in SDLC. | |
| | (3) | What is subsystem ? | |
| | (4) | SDLC stands for _____. | |
| | (b) | Explain role of system analyst. | 2 |
| | (c) | Explain characteristics of system. | 3 |
| | (d) | What is system ? Explain SDLC in detail. | 5 |
| 2 | (a) | Objective type questions : | 4 |
| | (1) | What is quality assurance ? | |
| | (2) | Umbrella activity including configuration management, quality assurance and documentation. (True or False) | |
| | (3) | Usability is related with network interface. (True or False) | |
| | (4) | QAA stands for _____. | |
| | (b) | Give difference between QA and Q. | 2 |
| | (c) | Write a note on SQC. | 3 |
| | (d) | What is quality ? Explain factors affecting quality in detail. | 5 |

3	(a) Objective type questions :	4
	(1) Define Bug.	
	(2) Failure is affected then software stop working. (True or False)	
	(3) Define Fault.	
	(4) Define Test Case.	
	(b) What is software testing ?	2
	(c) Explain Software Fault and Failure.	3
	(d) What is testing ? Explain Artifacts of testing in detail.	5
4	(a) Objective type questions :	4
	(1) Define White Box testing.	
	(2) Static testing contain inspection and walkthrough. (True or False)	
	(3) Module interdependencies tested in _____.	
	(4) Which testing is considered under system testing ?	
	(b) Define verification and validation.	2
	(c) Explain state transition testing.	3
	(d) What is testing ? List out techniques of testing and explain white box testing in detail.	5
5	(a) Objective type questions :	4
	(1) Which model is suitable for small project ?	
	(2) Waterfall model also known as _____.	
	(3) V-model is known as _____.	
	(4) Iterative model is also known as _____.	
	(b) Explain big bang model.	2
	(c) Explain iterative model in detail.	3
	(d) Explain V-model in detail.	5

- 6 (a) Objective type questions : 4
- (1) QTP stands for _____.
 - (2) Functional testing tool is purify plus. (True or False)
 - (3) TSL stands for _____.
 - (4) List out any 5 automatic testing tools.
- (b) What is software piracy ? 2
- (c) Explain software release agreement. 3
- (d) Explain Win Runner automated testing tool in detail. 5
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- 7 (a) Objective type questions : 4
- (1) COCOMO stands for _____.
 - (2) What is LOC and FP ?
 - (3) Complexity adjustment value used to determine LOC and FP. (True or False)
 - (4) Project Management include planning, controlling, monitoring. (True or False)
- (b) What is Project Management ? 2
- (c) Explain decomposition technique. 3
- (d) Explain empirical project estimation technique in detail. 5
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- 8 (a) Objective type questions : 4
- (1) PERT stands for _____.
 - (2) Timeline chart also known as _____.
 - (3) Development progress can be tracked by timeline chart. (True / False)
 - (4) CPM stands for _____.
- (b) Explain task network. 2
- (c) Write a note on Time Line Chart. 3
- (d) Explain PERT chart. 5

- 9 (a) Objective type questions : 4
- (1) CAD stands for _____.
 - (2) What is an extension of Visio drawing file ?
 - (3) Visio is a product of _____.
 - (4) Visio cannot be used to draw flowchart, engineering chart, floor plan and map. (True or False)
- (b) What is MS-Visio ? Explain two kinds of versions of visio. 2
- (c) Write steps for how to draw a flow chart using MS-Visio. 3
- (d) Explain MS-project in detail. 5
- 10 (a) Objective type questions : 4
- (1) Class diagram is used to represents _____.
 - (2) Actor is used in _____ diagram.
 - (3) UML stands for _____.
 - (4) What are two main components of use case diagram ?
- (b) What is UML ? Explain class diagram. 2
- (c) Explain Use case diagram. 3
- (d) Explain activity diagram with detail. 5
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