



Seat No. _____

H AJ-003-1043001

B. Sc. I. T. (Sem. III) (WEF-2016)

Examination

May - 2023

CS-13 : SAD, Software Quality

Assurance and Testing

Faculty Code : 003

Subject Code : 1043001

Time : $2\frac{1}{2}$ Hours / Total Marks : 70

- 1 (a) Objective type questions : 4
- (1) SDLC stands for _____.
 - (2) DFD stands for _____.
 - (3) In a DFD external entities are represented by a _____.
 - (4) _____ can be defined as data that has been processed into a form that is meaningful to the recipient and is of real or perceive value in current or prospective decisions.
- (b) Attempt the following : (any 1 out of 2) 2
- (1) Write definition of System.
 - (2) Explain System Analyst.
- (c) Attempt the following : (any 1 out of 2) 3
- (1) Explain QA Activities.
 - (2) Explain Level of DFD with example.
- (d) Attempt the following : (any 1 out of 2) 5
- (1) Explain Fact Finding Techniques.
 - (2) Explain Software Engineering.

2	(a) Objective type questions :	4
	(1) What is Bug ?	
	(2) What is Error ?	
	(3) What is Load Testing ?	
	(4) What is Security Testing ?	
	(b) Attempt the following : (any 1 out of 2)	2
	(1) What is Dynamic Testing ?	
	(2) Explain Integration Testing.	
	(c) Attempt the following : (any 1 out of 2)	3
	(1) Explain Black Box testing.	
	(2) Explain Test Harness and Test Suite.	
	(d) Attempt the following : (any 1 out of 2)	5
	(1) Explain static testing.	
	(2) Explain Non-functional testing.	
3	(a) Objective type questions :	4
	(1) Methodology in which project management processes were step-by step?	
	(2) An individual who plans and directs the work?	
	(3) A stage in which individual components are integrated and ensured that they are error-free to meet customer requirements?	
	(4) The customer requirements are broken down into logical modules for ease of _____.	
	(b) Attempt the following : (any 1 out of 2)	2
	(1) What is Win runner ?	
	(2) Define Freeware and Shareware.	
	(c) Attempt the following : (any 1 out of 2)	3
	(1) Explain Big Bang Model.	
	(2) Explain Prototyping Model.	
	(d) Attempt the following:(any 1 out of 2)	5
	(1) Explain Waterfall model.	
	(2) Write a note on V-Model.	

- 4 (a) Objective type questions : 4
- (1) A project usually has a timeline chart which was developed by _____?
 - (2) Every task that is scheduled should be assigned to a specific team member is termed as _____.
 - (3) A horizontal bar chart that shows project tasks against a calendar is called _____.
 - (4) Monitoring is NOT a part of project management. (True/false)
- (b) Attempt the following : (any 1 out of 2) 2
- (1) What is Project Management ?
 - (2) Define Project Costing based on metrics.
- (c) Attempt the following : (any 1 out of 2) 3
- (1) Explain Algorithms Methods.
 - (2) Explain Decomposition Method.
- (d) Attempt the following : (any 1 out of 2) 5
- (1) Explain Timeline Chart.
 - (2) Explain Task Network and Scheduling Methods.
- 5 (a) Objective type questions : 4
- (1) Object diagram is used to show the design _____ view of a system.
 - (2) Forward engineering and reverse engineering can be applicable to _____.
 - (3) _____ model static data structures.
 - (4) Class diagrams are not useful to _____.
- (b) Attempt the following : (any 1 out of 2) 2
- (1) What is UML Designing ?
 - (2) What is MS-VISIO ?
- (c) Attempt the following : (any 1 out of 2) 3
- (1) Explain Use Case Diagram.
 - (2) Explain Activity Diagram.
- (d) Attempt the following : (any 1 out of 2) 5
- (1) Give example of UML Class Diagram.
 - (2) Explain MS-Project for controlling and Project Management.