

PRIYADARSHINI COLLEGE OF ENGINEERING, NAGPUR

Department: Computer Technology

Semester: VI

Section: A and B

CAT-I (2022-23)

Subject : Software Testing and Quality Assurance
Duration : 1.5Hrs

Subject Code : BECT603T
Max. Marks : 35

Note:

- 1) All questions are compulsory.
- 2) All questions carry marks as indicated.

Questions

Marks CO BL
1M CO1 II

- Q.1 A I Test suite is _____
- a) Set of outputs
 - c) Set of test cases

- b) Set of inputs
- d) None of the above

1M CO1 II

- II Software testing is the process of _____
- a) Demonstrating that errors are not present.
 - b) Executing the program with the intent of finding the errors.
 - c) Executing the program to show that it executes as per SRS.
 - d) All of the above.

5M CO1 II

- B Difference between Verification and Validation.

7M CO1 II

- C What is SDLC? Describe in detail.

OR

1M CO1 II

- Q.2 A I Validation is _____
- a) Checking the product with respect to customer's expectations.
 - b) Checking the product with respect to specifications.
 - c) Checking the product with respect to constraints of project.
 - d) None of the above

1M CO1 II

- II Software testing is nothing else but _____

- a) Verification only
- b) Validation only
- c) Both verification and validation
- d) None of the above

5M CO1 II

- B What are the different practices for designing good test case? Explain in detail.

7M CO1 III

- C What is test case? Design the test case for the scenario:
"Check Login Functionality"

Questions				Marks	CO	BL
Q.3	A	I	Functionality of a software is tested by _____ a) White box testing b) Black box testing c) Regression testing d) None of the above	1M	CO2	II
		II	A testing which checks the internal logic of the program is _____ a) White box testing b) Black box Testing c) Both a and b d) None of the above	1M	CO2	II
	B		Differentiate between black box testing and white box testing.	5M	CO2	II
	C		What is boundary value analysis? Explain in detail with suitable example.	7M	CO2	II

OR

Q.4	A	I	Which one is not functional testing? a) BVA b) Decision table c) regression testing d) None of the above	1M	CO2	II
		II	BVA is based upon _____ a) Single fault assumption theory b) Multiple fault assumption theory c) Both a and b d) None of the above	1M	CO2	II
	B		Enlist any four tools to perform White box testing? Also explain advantages and disadvantages of white box testing.	5M	CO2	II
	C		What is Equivalence class partitioning? Explain in detail with suitable example.	7M	CO2	II

Q.5	A	I	Integration testing techniques are _____ a) Top down b) Bottom up c) Sandwich d) All of the above	1M	CO3	II
		II	Which of the following validation activities belong to low level testing _____? a) Unit testing b) Integration testing c) System testing d) Both a and b	1M	CO3	II
	B		What is unit testing? Explain in detail with suitable example.	5M	CO3	II

OR

Q.6	A	I	Number of sessions for integration testing is given by _____ a) Sessions = nodes + leaves - edges b) Sessions = nodes - leaves - edges c) Sessions = nodes + leaves - edges d) None of the above	1M	CO3	II
		II	An MM-path graph refers to _____ a) Module to module path graph b) Manager to manager path graph c) Many module path graph d) None of the above	1M	CO3	II
	B		Explain in detail about advantages and disadvantages of unit testing.	5M	CO3	II