

Seat No. : _____

AA-105

April-2025

B.C.A., Sem.-VI

CC-307 : Software Testing

Time : 2:30 Hours]

[Max. Marks : 70

1. Answer the following :
 - (A) Define software testing. Explain goals to be achieved during software testing. 7
 - (B) What are the principles of software testing ? Explain in detail. 7

OR

 - (A) What is verification and validation ? Explain V&V model in detail. 7
 - (B) Explain stages of Software Testing Life Cycle. 7

2. Answer the following :
 - (A) Which black-box technique uses boundary value ? Explain in detail. 7
 - (B) List methods of static testing. Explain any one in detail. 7

OR

 - (A) Which components are used to create a decision table ? Explain with example. 7
 - (B) Explain different forms of logic coverage criteria. 7

3. Answer the following :
 - (A) What is unit testing ? Discuss the role of drivers and stubs in detail. 7
 - (B) Discuss reliability and recovery testing in detail. 7

OR

 - (A) When integration testing is performed ? Explain any one method of integration testing. 7
 - (B) Explain Acceptance testing with its types. 7

4. Answer the following :
 - (A) Discuss internal standards in test management. 7
 - (B) Which components are required in test infrastructure management ? 7

OR

 - (A) Discuss any five steps of test planning. 7
 - (B) Explain testing process in detail. 7

5. Answer following. (Any Seven)

- (1) Testing is a/an _____ process.
 - (a) Intuitive
 - (b) Random
 - (c) Planned
 - (d) None of the above
- (2) How many test cases are there in robustness testing if there are 5 variables in a module ?
 - (a) 10
 - (b) 21
 - (c) 23
 - (d) 31
- (3) A node with more than one arrow entering it is called a _____.
 - (a) Decision node
 - (b) Junction node
 - (c) Region
 - (d) All of the above
- (4) The programmer or designer responsible for producing the program or document is known as _____.
 - (a) Author
 - (b) Owner
 - (c) Producer
 - (d) All of the above
- (5) When the control from one unit is transferred to another unit, then the programming language mechanism used to do this is known as
 - (a) Sink nodes
 - (b) Source nodes
 - (c) Message
 - (d) None of the above
- (6) Measures intended to allow the receiver to determine that the information which it receives has not been altered in transit is known as _____.
 - (a) Confidentiality
 - (b) Integrity
 - (c) Availability
 - (d) Authentication
- (7) Testing process starts as soon as the _____ for the system are prepared.
 - (a) Design
 - (b) Coding
 - (c) Specification
 - (d) None of the above
- (8) Technique for assessing the structural characteristics of source code, design specifications, or any notational representation that conforms to well-defined syntactic rules is called _____.
 - (a) Dynamic testing
 - (b) Static testing
 - (c) Black-box testing
 - (d) None of the above
- (9) MEP stands for
 - (a) Module Execution Path
 - (b) Message Execution Path
 - (c) Map Execution Path
 - (d) MM Execution Path
- (10) A report that summarizes the results of a test cycle is the _____.
 - (a) Test Incident Report
 - (b) Test Cycle Report
 - (c) Test Summary Report
 - (d) None of the above
- (11) A test cycle is _____ activity.
 - (a) Isolated
 - (b) Continuous
 - (c) Discrete
 - (d) Both Isolated and Continuous
- (12) Using the test plan, the _____ is designed.
 - (a) Test Case Specification
 - (b) Test Case Design
 - (c) Test Case Testing
 - (d) None of the above