

Seat No. : 00089

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AB-103

April-2024

BCA., Sem.-VI

CC-307 : Software Testing

Time : 2:30 Hours]

[Max. Marks : 70

1. Answer the following :

- (1) Explain the different stages of STLC. 7
- (2) What is software testing ? List and explain goals of software testing. 7

OR

- (1) Explain testing principles. 7
- (2) Differentiate static and dynamic testing. 7

2. Answer the following :

- (1) Which type of testing is possible with BVA ? Explain BVC and Robustness testing with example. 7
- (2) Explain basis path testing with example. 7

OR

- (1) How decision table is used in black-box testing ? Explain formation of decision table. 7
- (2) What are the stages of inspection process ? 7

3. Answer the following :

- (1) What is Unit testing ? Discuss the role of drivers and stubs. 7
- (2) Differentiate Alpha and Beta testing. 7

OR

- (1) When is system testing performed ? Discuss any two categories of system testing. 7
- (2) What is integration testing ? Explain pair-wise and neighbourhood integration. 7

4. Answer the following :

- (1) Explain components of Test Infrastructure Management. 7
- (2) List and explain types of reports in test reporting. 7

OR

- (1) Write a short note on Testing process. 7
- (2) Explain internal and external standards of Test Management. 7

5. Answer the following : [Any Seven]

- (1) Defect is synonymous with the word _____.
(a) Failure (b) Fault
(c) Error (d) All of these
- (2) The inability of a system or component to perform a required function is called _____.
(a) Failure (b) Bug
(c) Error (d) None of these
- (3) How many test cases are there in BVC if there are 5 variables in a module ?
(a) 23 (b) 13
(c) 10 (d) 21
- (4) White-box testing is also called _____.
(a) Glass box (b) Open box
(c) Both (a) & (b) (d) None of these
- (5) _____ is more formal process.
(a) Inspection (b) Walk-through
(c) Technical Reviews (d) All of these
- (6) Testing is the process of _____ errors.
(a) Hiding (b) Finding
(c) Removing (d) None of these
- (7) A node with more than one arrow leaving is called _____.
(a) Decision node (b) Junction node
(c) Region (d) All of these
- (8) According to Miller's theorem, _____.
(a) $V(G) = d + 2P$ (b) $V(G) = d + p$
(c) $V(G) = 2d + P$ (d) None of these
- (9) Static testing can be applied for most of the _____.
(a) Validation activities (b) SDLC activities
(c) Verification activities (d) None of these
- (10) Recovery is the ability of a system to _____ operations after the integrity of the application has been lost.
(a) Suspend (b) Observe
(c) Restart (d) All of these
- (11) The node from which the control is transferred is called _____.
(a) Source node (b) Sink node
(c) Message (d) MM path
- (12) A test cycle is _____ activity.
(a) Continuous (b) Isolated
(c) Both (a) & (b) (d) None of these