

Seat No. : 43

AG-104

April-2022

BCA., Sem.-VI

CC-307 : Software Testing

Time : 2 Hours]

[Max. Marks : 50

- Instructions :**
- (1) Attempt any **two** questions in **Section – I**
 - (2) **Section – II** is *compulsory*.
 - (3) Figures to the right indicates full marks.

SECTION – I

1. (A) Answer the following questions : 10
 - (1) What is software testing ? List and explain goals of software testing.
 - (2) How dynamic testing differs from static testing ?

(B) Write short note on following 10

 - (1) Software Testing Life Cycle (STLC)
 - (2) Principles of Software Testing
2. (A) Answer the following questions : 10
 - (1) What is black box testing ? List different techniques of it.
 - (2) What is white box testing ? Why we need white box testing ?

(B) Write short note on following : 10

 - (1) BVA
 - (2) Basis path testing
3. (A) Do as directed : 10
 - (1) Differentiate alpha and beta testing
 - (2) Discuss different tests which have to be performed under system testing.

(B) Explain the following terms :

(1) Drivers

(2) Stub

10

4. (A) What is test management ? Explain choice of standards in brief.

(B) What is test planning ? List all the steps of it. Explain any two in detail

10

10

SECTION – II

Answer the following MCQs (Any Five) :

10

(1) Testing is the process of ____ errors.

(A) Finding

(B) Hiding

(C) Removing

(D) None of the above

(2) Symptom(s) associated with a failure that alerts the user to the occurrence of a failure is called ____.

(A) Bug

(B) Incident

(C) Error

(D) Defect

(3) The process of evaluating a system or component during or at the end of the development process to determine whether it satisfies the specified requirements is called ____.

(A) Verification

(B) STLC

(C) SDLC

(D) Validation

(4) Every design feature and its corresponding code is checked logically with every possible path execution in ____.

(A) Black box Testing

(B) White box testing

(C) Testing tool

(D) Test Report

(5) How many test cases are there in BVC if there are 4 variables in a module ?

(A) 23

(B) 17

(C) 13

(D) 21

- (6) How many test cases are there in worst-case testing if there are 3 variables in a module ?
- (A) 125 (B) 625
(C) 623 (D) 521
- (7) If there are k rules over n binary conditions, there are at least _____ test cases and at the most _____ test cases.
- (A) $k + 2, 2n + 2$ (B) $k + 3, 2n + 3$
(C) $k, 2n$ (D) $3k + 3, 2n + 2$
- (8) A node with more than one arrow entering it is called a _____.
- (A) Junction node (B) Decision node
(C) Predicate node (D) Region
- (9) The number of independent paths is given by _____.
- (A) $V(G) = e - n + 1$ (B) $V(G) = e - n + 2$
(C) $V(G) = 2e - n + 1$ (D) $V(G) = e - 2n + 1$
- (10) _____ is done based on estimation of effort involved and availability of time for release.
- (A) Defect Repository (B) Test Cycle Report
(C) Traceability (D) Staffing
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