

Seat No. : \_\_\_\_\_

# 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 : **10**
- (1) Drivers
  - (2) Stub

4. (A) What is test management ? Explain choice of standards in brief. **10**
- (B) What is test planning ? List all the steps of it. Explain any two in detail **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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