

**(FOR THE CANDIDATES ADMITTED  
DURING THE ACADEMIC YEAR 2022 ONLY)**

**22UBC516**

**REG.NO. :**

**N.G.M.COLLEGE (AUTONOMOUS) : POLLACHI  
END-OF-SEMESTER EXAMINATIONS : NOVEMBER-2024**

**COURSE NAME: B.C.A  
SEMESTER: V**

**MAXIMUM MARKS: 50  
TIME : 3 HOURS**

**PART - III  
SKILL ENHANCED COURSE: SOFTWARE TESTING**

**SECTION – A (10 X 1 = 10 MARKS)**

**ANSWER THE FOLLOWING QUESTIONS.**

**MULTIPLE CHOICE QUESTIONS.**

**(K1)**

1. An \_\_\_\_\_ connects two nodes in a control flow graph.
  - a. Flow
  - b. Edge
  - c. Decision Node
  - d. Junction Node
2. There are \_\_\_\_\_ fundamental principles of testing.
  - a. 2
  - b. 5
  - c. 7
  - d. 6
3. \_\_\_\_\_ testing checks the program's functionality.
  - a. Black box
  - b. White box
  - c. Gray box
  - d. None
4. Which of the following is not a valid software testing technique?
  - a. Inspections
  - b. Error guessing
  - c. Walkthrough
  - d. Data flow analysis
5. Selenium has \_\_\_\_\_ components.
  - a. 2
  - b. 3
  - c. 4
  - d. 5

**ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES (K2)**

6. Expand RAD.
7. Define functional independence.
8. What is the use of Acceptance testing?
9. Give any two software metrics.
10. Name any two software testing tools.

**SECTION – B (5 X 3 = 15 MARKS)**

**ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS. (K3)**

11. a) List the characteristics of a software and explain them.  
**(OR)**  
b) Analyze the various software applications and explain them.
12. a) Assess the Data flow diagram and its functions.  
**(OR)**  
b) List the elements of Analysis model and explain them.

**(CONTD .... 2)**

13.a) Compare QA and QC.  
**(OR)**  
b) Difference between Black box and White box testing.

14.a) List the components of a test plan and explain them.  
**(OR)**  
b) Analyze the concept of Object mapping.

15.a) Inspect the properties of elements in selenium.  
**(OR)**  
b) How will you handle alerts?

**SECTION – C****(5 X 5 = 25 MARKS)****ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS.**  
**(K4 (Or) K5)**

16. a) Explain the term software process in detail. [K4]  
**(OR)**  
b) Discuss (i) Prototyping model (ii) Component Assembly model in detail. [K4]

17.a) Interpret Design concepts and principles in detail. [K4]  
**(OR)**  
b) Compare Cohesion and Coupling. [K4]

18. a) Examine the Software Quality Assurance in detail. [K4]  
**(OR)**  
b) List all types of testing and explain them in detail. [K4]

19.a) Describe Test plan in detail. [K4]  
**(OR)**  
b) Give a detailed report on Automation test tools. [K4]

20.a) Survey selenium and present a detailed report. [K4]  
**(OR)**  
b) Study and prepare a detailed report on Database testing using selenium. [K4]

\*\*\*\*\*