

(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** **MAXIMUM MARKS: 50**  
**SEMESTER: V** **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]

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