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**FOR THE CANDIDATES ADMITTED
DURING THE ACADEMIC YEAR 2020 ONLY)**

REG.NO

20UCS5E1

NGM COLLEGE (AUTONOMOUS) POLLACHI

END-OF-SEMESTER EXAMINATIONS: DECEMBER-2022

B. Sc-Computer Science (SF)

MAXIMUM MARKS: 70

V SEMESTER

TIME: 3 HOURS

PART III

SOFTWARE ENGINEERING AND TESTING

SECTION – A **(10 X1 = 10 MARKS)**

ANSWER THE FOLLOWING QUESTIONS

(K1)

ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES

(K2)

6. List the various categories of Software.
7. What is Interview Coding Test.
8. What is the Initial Phase.
9. What is the principal of software test Automation.
10. Illustrate WinRunner Testing Tool.

(CONT'D 2)

ETHICAL PAPER

SECTION – B (5 X 4 = 20 MARKS)**ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS. (K3)**

11. a) Describe in what situations, Waterfall model was the preferred approach with example.
(OR)
 b) Describe in detail the Real Time Example of Spiral Model.

12. a) Automated Test Case Scope is High than Manual Test Case. Examine with example.
(OR)
 b) How to Write Automated Tests? Analyse with example.

13. a) Interpret the various White Box Testing Tools with example.
(OR)
 b) What are Black Box Test Cases and explain the – types of Black Box Testing? Sketch with example.

14. a) Describe with example various steps that are used in Automated Testing Process.
(OR)
 b) Elaborate the merits about Cross-browser testing tool with example.

15. a) How to Create a Test Using Winrunner? Analyze with example.
(OR)
 b) Examine the Test Data Types with example .

SECTION – C (4 X 10 = 40 MARKS)**ANSWER ANY FOUR OUT OF SIX QUESTIONS****(16th QUESTION IS COMPULSORY AND ANSWER ANY THREE QUESTIONS)
 (FROM Qn. No : 17 to 21) (K4 (or) K5)**

16. Analyze in detail about the Prototype Model with neat diagram.

17. Demonstrate Evolutionary Model in Software Engineering with neat diagram.

18. Illustrate various types of Coupling and Cohesion with example.

19. Compare Verification and Validation Testing with example.

20. Discuss the Software Testing Metrics, its Types and Example.

21. Summarize the steps of Data Driven Tests using WinRunner with example.