(FOR THE CANDIDATES ADMITTED **23PCS1E2**

DURING THE ACADEMIC YEAR 2023 ONLY) **REG.NO. :**

N.G.M.COLLEGE (AUTONOMOUS) : POLLACHI

END-OF-SEMESTER EXAMINATIONS : NOVEMBER-2023

M.Sc. COMPUTER SCIENCE (SF) **MAXIMUM MARKS: 75**

SEMESTER : V **TIME : 3 HOURS**

PART-III

23PCS1E2- SOFTWARE ENGINEERING AND TESTING

SECTION – A (10 X 1 = 10 MARKS)

ANSWER THE FOLLOWING QUESTIONS.

(K1)

1. Software is defined as _____
   a) set of programs, documentation & configuration of data
   b) set of programs
   c) documentation and configuration of data
   d) None of the mentioned
2. Who design and implement database structures?
   a) Programmers
   b) Project managers
   c) Technical writers
   d) Database administrators
3. Who identifies, documents, and verifies that corrections have been made to the software?
   a) Project manager
   b) Project team
   c) SQA group
   d) Testing
4. What is Cyclomatic complexity?
   a) Black box testing
   b) White box testing
   c) Yellow box testing
   d) Green box testing
5. In size oriented metrics, metrics are developed based on the _____
   a) number of Functions
   b) number of user inputs
   c) number of lines of code
   d) amount of memory usage

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

6. Define Software.
7. What is pattern?
8. Define the Software Project Estimation.

(CONT…2)

9. Define Testing.
10. What is WinRunner?

SECTION – B (5 X 5 = 25 MARKS)

ANSWER THE FOLLOWING QUESTIONS. (K3)

11. a) Sketch the generic process model.

(OR)

b) Describe the Data modeling Concepts.

12. a) Discuss the evolution of software design.

(OR)

b) Summarize the Design Classes.

13. a) Describe the tasks, goals and metrics in SQA.

(OR)

b) Explain the project planning process.

14. a) Describe the Phases of Software Project.

(OR)

b) Distinguish between White box testing and Black box testing.

15. a) Classify the types of Metrices.

(OR)

b) How to test an Application Using WinRunner tool? Explain.

SECTION – C (5 X 8 = 40 MARKS)

ANSWER THE FOLLOWING QUESTIONS.(K4 (Or) K5)

16. a) Discuss the Requirement modeling strategies.

(OR)

b) Summarize the Flow oriented modeling.

17. a) Summarize the concepts of object oriented design.

(OR)

b) Classify the various types of design model.

18. a) Discuss the Risk Management with suitable example.

(OR)

b) Summarize the Empirical estimation models.

19. a) Discuss in detail the various types of Testing.

(OR)

b) Examine the Performance testing.

20. a) Analysis the design and architecture for Automation of software Testing.

(OR)

b) Summarize the usages of Win Runner.

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