

(FOR THE CANDIDATES ADMITTED

25PCS1E2

DURING THE ACADEMIC YEAR 2024 ONLY)

REG.NO. :

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

END-OF-SEMESTER EXAMINATIONS : NOVEMBER- 2025

M.Sc Computer Science(SF)

MAXIMUM MARKS: 75

SEMESTER : I

TIME : 3 HOURS

25PCS1E2- SOFTWARE ENGINEERING AND TESTING

SECTION – A

(10 X 1 = 10 MARKS)

ANSWER THE FOLLOWING QUESTIONS.

(K1)

1. What is the main aim of Software Engineering?
 - (a) Reliable Software
 - (b) Cost Effective software
 - (c) Reliable Cost Effective Software
 - (d) Direct measures
2. In Design phase, software engineer mainly create.
 - a) Source code
 - b) Design diagrams and models
 - c) Testcases
 - d) users manuals
3. Which of the following is not a SQA plan for a project?
 - a) evaluations to be performed
 - b) amount of technical work
 - c) audits and reviews to be performed
 - d) documents to be produced by the SQA group
4. _____ is a process of executing a program with intent of finding an error?
 - a) Debugging
 - b) Error Detection
 - c) Testing
 - d) Test planning
5. Which tool is commonly used for Performance Testing?
 - a) Selenium
 - b) Apache JMeter
 - c) Visual Studio Code
 - d) Postman

ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES

(K2)

6. Define Software.
7. Tell about the Data Design Elements.
8. Define SQA .
9. Distinguish between Black box and White box Testing.
10. Define WinRunner Tool.

SECTION – B

(5 X 5 = 25 MARKS)

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

11. a) Discover the Software Application Domains.

(OR)

- b) Interpret the Process Patterns and its types.

(CONT...2)

12. a) Describe the Evolution of Software Design.

(OR)

- b) Examine the Architectural Design Elements.

13. a) Interpret the Empirical Estimation Models.

(OR)

- b) Examine the RMMM Plan.

14. a) Compare Functional System Testing and -Non Functional Testing.

(OR)

- b) Discover the Tools and Challenges of Performance Testing.

15. a) Describe the Design and Architecture for Automation.

(OR)

- b) Interpret the Test Tool Challenges.

SECTION – C

(5 X 8 = 40 MARKS)

ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS.(K4 (Or) K5)

16. a) Discuss the Requirement Modeling strategies.

(OR)

- b) How to create Dataflow and Control flow Model? Explain.

17. a) Summarize the Concept of Object Oriented Design.

(OR)

- b) Determine the elements of Deployment level Design.

18. a) Discuss the Goals and Metrics in SQA.

(OR)

- b) Interpret the Project Planning Process and Project Estimation.

19. a) Outline the Software Development Life Cycle Models.

(OR)

- b) Discuss on the Testing and its types.

20. a) Determine the Metrics in Testing and its types.

(OR)

- b) Summarize the Overview of WinRunner.

Ethical paper