

NGM COLLEGE (AUTONOMOUS) POLLACHI

END-OF-SEMESTER EXAMINATIONS: MAY-2023

B. Sc-Information Technology

MAXIMUM MARKS: 70

IV SEMESTER

TIME: 3 HOURS

PART III

SOFTWARE ENGINEERING

SECTION – A

(10 X1 = 10 MARKS)

**ANSWER THE FOLLOWING QUESTIONS
MULTIPLE CHOICE QUESTIONS**

1. The waterfall model, sometimes called _____ model.
(a) incremental (b) classic life cycle (c) iterative (d) prototyping
2. The maximum number of objects that can participate in a relationship is _____.
(a) cardinality (b) modality (c) relationships (d) validation
3. A _____ is a named collection of data that describes a data object.
(a) data abstraction (b) software architecture
(c) design pattern (d) modularity
4. A product which is manufactured by using the degree of the design specification?
(a) Quality Control (b) Quality assurance
(c) Quality conformance (d) validation
5. The _____ focuses verification effort on the smallest unit of software design, the software component or module.
(a) integration testing (b) regression testing
(c) System testing (d) unit testing

ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES

(K2)

6. What is agility?
7. What is meant by control specification?
8. Define: Design Process.
9. Explain software reliability.
10. Explain stress testing.

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

11. a) Examine the process assessment and its formal techniques.
(OR)
b) Describe the Spiral model with diagram.
12. a) Sketch the requirement analysis functionalities.
(OR)
b) Describe the requirement analysis for web apps.
13. a) What are the characteristics of a good design?
(OR)
b) Sketch the interface design evaluation cycle in detail.
14. a) What steps are required to perform statistical SQA?
(OR)
b) Describe the SQA plan in detail.
15. a) List the characteristics of testability.
(OR)
b) Interpret , what guidelines lead to a successful software testing strategy?

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. Discuss in detail about Incremental Process Models with suitable example.
17. Summarize the Extreme Programming (XP) process in detail.
18. Point out the data modeling concepts.
19. Discuss the golden rules of user interface design.
20. Summarize the software quality concepts.
21. Evaluate all the basis path testing.
