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(FOR THE CANDIDATES ADMITTED DURING THE ACADEMIC YEAR 2021-22 ONLY)

SUB CODE 21 UCT 3A3

REG.NO. :

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

END-OF-SEMESTER EXAMINATIONS : DECEMBER – 2022

B.Sc. – COMPUTER TECHNOLOGY **MAXIMUM MARKS: 70**

III SEMESTER **TIME : 3 HOURS**

PART - III

SOFTWARE ENGINEERING

SECTION - A (10 X 1 = 10 MARKS)

ANSWER THE FOLLOWING QUESTIONS.

MULTIPLE CHOICE QUESTIONS. (K1)

1. It is a linear, sequential approach to the software development life cycle …….
   a) waterfall model b) incremental model
   c) spiral model d) network model
2. Which of the following is not a step of requirement engineering?
   a) requirement elicitation b) requirement analysis
   c) requirement design d) requirement documentation
3. It defines the structure of the entire system by identifying the static structure of objects in that system……..
   a) behavior model b) class based model
   c) flow based model d) scenario based model
4. It represents the application components and determines their appropriate placement and use within the overall architecture……..
   a) analysis model b) network model
   c) design model d) spiral model
5. Software requirement specification is also known as……
   a) white box testing b) acceptance testing
   c) integration testing d) block box testing

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

6. Expand CMMI.
7. List out the activities involved in requirement engineering process.
8. What is meant by behavioral model?
9. The process to transform the user requirements into some suitable form is called what?
10. What is meant by Stress Testing?

SECTION – B (5 X 4 = 20 MARKS)

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

11. a) Explain the evolving role of software.

(OR)

b) Outline the Incremental process models .

12. a) Explain the system engineering Hierarchy.

(OR)

b) Discuss about Building the Analysis Model.

13. a) Write about Object-Oriented Analysis.

(OR)

b) Explain the process to creating a Behavioral Model.

14. a) Outline the importance of Design concepts.

(OR)

b) Write a note on Architectural Design.

15. a) Explain the test strategies for conventional software.

(OR)

b) Write a note on Performance testing.

SECTION – C (4 X 10 = 40 MARKS)

ANSWER ANY FOUR OUT OF SIX QUESTIONS.

(16th QUESTION IS COMPULSORY AND ANSWER ANY THREE QUESTIONS. (K4/K5)

16. Write a brief note on software myths.

17. List the tasks in waterfall model.

18. Explain in detail about Requirements Engineering Tasks.

19. Explain the Data modeling concepts.

20. Briefly explain Software architecture.

21. Distinguish between Black - Box and White-Box Testing.

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