MAY 2025 **U/ID 46514/UCC5B**

Time : Three hours Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer any TEN questions

1. What is Software Engineering?
2. What are the layers of software engineering?
3. What is Planning Activity?
4. What is Software Maintenance?
5. What is the use of process specialization?
6. What is Decision Table?
7. List any two design principles
8. Define : Walk through.
9. What is test-plan?
10. What is meant by State Analysis?
11. What is Quality Assurance?
12. What is Symbolic execution?

PART B — (5 × 5 = 25 marks)

Answer any FIVE questions

13. Discuss about categories of software products.

14. Explain briefly about software cost and quality.

15. Discuss about structure charts and HIPO diagram.

16. Explain about design guidelines.

17. Explain how do you perform a symbol execution.

18. Explain the basic principles of effective modular design

19. Explain about software quality assurance in detail.

PART C — (3 × 10 = 30 marks)

Answer any THREE questions

20. Explain in detail the planning of the software projects.

21. Explain the factors that influence quality and productivity of software product.

22. Discuss the importance of the software requirements phase.

23. Discuss in detail structured coding techniques.

24. Explain the verification and validation techniques in detail.

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