QP CODE: 25047416

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Reg No : .....

Name : .....

M.Sc DEGREE (CSS) EXAMINATION, NOVEMBER 2025

Third Semester

Core Course - CA500301 - SOFTWARE ENGINEERING

M.Sc COMPUTER SCIENCE, M.Sc INFORMATION TECHNOLOGY

2019 ADMISSION ONWARDS

69216FFA

Time: 3 Hours Weightage: 30

Part A (Short Answer Questions)

*Answer any **eight** questions.*

*Weight **1** each.*

1. What framework activities are used during PSP?
2. Describe the inception phase in Unified Process.
3. Define Spike solution.
4. What is State Diagram?
5. Define Data Attributes.
6. Differentiate Control specification and Process specification.
7. Write short description on internal and external view of testing?
8. Briefly explain Fault-based testing.
9. Briefly explain defect removal efficiency.
10. Write a short note on software risk.

(8×1=8 weightage)

Part B (Short Essay/Problems)

*Answer any **six** questions.*

*Weight **2** each.*

11. Explain the planning principles in software engineering.
12. Describe prescriptive models in software engineering.
13. Write a note on Scrum.
14. Draw one class diagram.
15. Write a brief note on the elicitation work products.
16. Describe the steps involved in Scenario based modelling.
17. Explain the architectural mapping using data flow.

18. How to define a tsk network for the software project?

(6×2=12 weightage)

Part C (Essay Type Questions)

*Answer any **two** questions.*

*Weight **5** each.*

19. Explain specialized process models in software engineering.

20. Define Use-case Diagram.Explain its symbols with the help of a Use-case Diagram.

21. Explain the UML models that supplements the use case diagram with an example.

22. Describe component based development.

(2×5=10 weightage)