



QP CODE: 25047647



Reg No :

Name :

M.Sc DEGREE (CSS) EXAMINATION, NOVEMBER 2025

Third Semester

MSc CYBER FORENSICS

ELECTIVE - CF800301 - ADVANCED SOFTWARE ENGINEERING

2019 ADMISSION ONWARDS

4778208F

Time: 3 Hours

Weightage: 30

Part A (Short Answer Questions)

*Answer any **eight** questions.*

*Weight **1** each.*

1. What is requirement specification?
2. What are the requirement validation techniques used?
3. Describe context model?
4. What is data driven modelling?
5. What are the ways of choosing unit test cases?
6. What is user testing ? What are the different types of user testing?
7. What are the cost and problems associated with software reuse?
8. What are the issues in distributed system engineering?
9. What are the different categories of risk? Explain with example?
10. What is the difference between Agile development and plan driven development?

(8×1=8 weightage)

Part B (Short Essay/Problems)

*Answer any **six** questions.*

*Weight **2** each.*

11. Explain reuse oriented software engineering in detail.
12. What are the non functional system requirements that supported by software architecture?
13. Describe information system and its layers with an example.
14. How the relationship between system and its environment can be represented or identified using different models?





15. What is a configuration management? What are the three fundamental configuration management activities?
16. Explain component interface with diagram and example.
17. Compare multi tier and two tier architecture with example.
18. Explain commonly used to project scheduling representations.

(6×2=12 weightage)

Part C (Essay Type Questions)

*Answer any **two** questions.*

Weight 5 each.

19. What is an architectural pattern ? Explain any two architectural patterns with examples.
20. Explain software evolution process with diagram. How changes drives system evolution?
21. Explain software product line and its architecture with an example.
22. Explain Service Engineering process in detail.

(2×5=10 weightage)

