



QP CODE: 25802550



25802550

Reg No :

Name :

INTEGRATED MSC DEGREE EXAMINATION, MAY 2025

Fourth Semester

CORE - ICSC4CR4 - SOFTWARE ENGINEERING

INTEGRATED MSC COMPUTER SCIENCE-ARTIFICIAL INTELLIGENCE AND MACHINE
LEARNING, INTEGRATED MSC COMPUTER SCIENCE-DATA SCIENCE

2020 Admission Onwards

3C9D7AF3

Time: 3 Hours

Weightage: 30

Part A (Short Answer Questions)

*Answer any **eight** questions.*

Weight 1 each.

1. What are the different software services?
2. Name the different SDLC models.
3. Define Function Point Metric.
4. Describe briefly about COCOMO model.
5. Why do we need layered arrangement of modules?
6. What is Structured Analysis?
7. Distinguish between alpha and beta testing.
8. What is Bottom up integration Testing? And its advantages
9. Why is it important for an organisation to undertake an effective reuse program?
10. What is meant by ORB?

(8×1=8 weightage)

Part B (Short Essay/Problems)

*Answer any **six** questions.*

Weight 2 each.

11. Define software engineering ,software process and the crises in software developemnt.
12. Explain V model.
13. What are the complexities in software Project Management?





14. Describe the Risk Management Approaches.
15. Draw a translating diagram for analysis model into a software design. Brief about each translations.
16. Distinguish between verification and validation.
17. Differentiate between hardware and software reliability.
18. Write the need for software maintenance. Explain different categories of maintenance.

(6×2=12 weightage)

Part C (Essay Type Questions)

*Answer any **two** questions.*

Weight 5 each.

19. Compare the waterfall model and spiral model.
20. Explain in detail about activity Networks and Critical Path Method.
21. What is structured design? Illustrate the structured design process from DFD to structured chart with a case study.
22. Explain in detail about Test Driven Development with diagram.

(2×5=10 weightage)

