



24803812

QP CODE: 24803812

Reg No :

Name :

INTEGRATED MSC DEGREE EXAMINATION, JULY 2024

Fourth Semester

CORE - ICSC4CR4 - SOFTWARE ENGINEERING

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

2020 Admission Onwards

72967CE2

Time: 3 Hours

Weightage: 30

Part A (Short Answer Questions)

*Answer any **eight** questions.*

Weight 1 each.

1. What is SDLC state the different stages of it?
2. What are the mostly used SDLC models in the software industry?
3. What are the project size estimation metrics?
4. What are the empirical project estimation techniques?
5. What is Decision Tables? What are the components of decision table?
6. What are the three principles for a user interface design?
7. What are the objectives of testing?
8. How regression and stress tests are performed?
9. How do Lehman's laws relate to software maintenance?
10. What are the main problems with software reuse?

(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 development.
12. Explain the iterative waterfall model with its advantages over waterfall model.





13. Describe the Risk Management Approaches.
14. Discuss the characteristics of a good SRS document.
15. Write in detail about the software design concept.
16. Describe Incremental Coding Process.
17. Explain about reliability metrics of software products.
18. Explain the advantages of using a client-server architecture.

(6×2=12 weightage)

Part C (Essay Type Questions)

*Answer any **two** questions.*

Weight 5 each.

19. Explain in detail with suitable example the types of software development projects.
20. Discuss in detail about organisation and team structure.
21. Describe Structured Design Methodology for function-oriented design.
22. Explain Best practices for creating software documentation.

(2×5=10 weightage)

