

17P460

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Name.....

Reg. No.....

FOURTH SEMESTER M.Sc. DEGREE EXAMINATION, APRIL 2019

(CUCSS - PG)

(Computer Science)

CC17P CSS4 C01 – PRINCIPLES OF SOFTWARE ENGINEERING

(2017 Admissions)

Time: Three Hours

Maximum: 36 Weightage

PART A

Answer *all* questions. Each question carries 1 weightage.

1. Name different feasibility studies.
2. What are agile models? List a few.
3. Define SRS
4. What are software engineering challenges?
5. What is meant by code review?
6. Define SA/SD
7. What is mutation testing?
8. Differentiate project plan and test plan.
9. Define UML
10. What is data diagram?
11. What is test script?
12. What are key deliverables for report writing?

(12 x 1=12 Weightage)

Part B

Answer any *six* questions. Each question carries 2 weightage.

13. Why developing a software is called a process?
14. Draw a DFD to second level for library management.
15. Draw a ER diagram for Book, Issue, Student, and Staff table.
16. Explain any one cost estimation model.
17. What is test plan? Give some of the example test plan for any software as example.
18. Explain the layered arrangement of modules.
19. Discuss on risk management in software engineering.
20. Explain any one software process development model.
21. Write notes on sequence diagram with example.

(6 x 2 = 12 Weightage)

Part C

Answer any *three* questions. Each question carries 4 weightage.

22. Explain the components and characteristics of SRS.
23. Discuss the phases of SDLC
24. Explain the structured design methodology.
25. What is meant by software testing? Explain the different types.
26. Explain cohesion and coupling in detail.
27. Explain any one agile model with figure.

(3 x 4 = 12 Weightage)
