19P268 (Pages: 1) Name……..…….

Reg. No.....……..

SECOND SEMESTER M.Sc. DEGREE EXAMINATION, APRIL 2020

(CUCSS - PG)

CC19P CSS2 C10 - PRINCIPLES OF SOFTWARE ENGINEERING

(Computer Science)

(2019 Admissions - Regular)

Time: Three Hours Maximum: 30 Weightage

PART A

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

1. What are software engineering challenges?
2. Draw classical waterfall model.
3. What are metrics for project size estimation?
4. Draw an ER diagram for book and book issue.
5. What are the reasons to construct a model?
6. Draw a state chart diagram for order object
7. Name few problems faced by research scholar.

(4 × 2 = 8 Weightage)

PART B

Answer any ***four*** questions. Each question carries 3 weightage.

8. Explain essential idea behind agile model
9. Explain the steps for writing report in project documentation.
10. Define cyclomatic complexity. Explain different properties of cyclomatic complexity.
11. What are steps involved in test plan?
12. Explain classification of cohesiveness and coupling
13. Describe literature survey.
14. Explain data flow diagram, illustrate with example of reservation system.

(4 × 3 = 12 Weightage)

PART C

Answer any ***two*** questions. Each question carries 5 weightage.

15. Explain software testing strategies
16. Describe structured analysis and design
17. Explain software requirement specification.
18. a) What is risk identification? How risks are monitored and managed by project managers?

    b) What are the various types of risks in software projects?

(5 × 2 = 10 Weightage)

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