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Total No. of Pages : 02

Total No. of Questions : 18

B.Tech. (Software Engineering) (Sem.-3)

SOFTWARE ENGINEERING

Subject Code : SE-303-19

M.Code : 78677

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

Write briefly :

- 1) Name various elements of a system.
- 2) What is the output of system analysis?
- 3) Why the waterfall model is impractical?
- 4) Name various activities in the software planning.
- 5) What are the characteristics of good SRS?
- 6) What is the purpose of data dictionary?
- 7) What is the difference between top-down and bottom-up approaches?
- 8) What is system testing?
- 9) What is the software maintenance?
- 10) Name the CMM levels of Software Quality Assurance.



SECTION-B

- 11) How does the "Project Risk" factor affect the spiral model of software development?
- 12) Explain COCOMO model. What is Raleigh curve?
- 13) Define module coupling and cohesion. Enumerate different types of coupling between two modules and different types of cohesion in the same module. How the two are interrelated?
- 14) What are the objectives of software testing? Write a note on :
(i) White box testing (ii) black-box testing
- 15) What is component based software engineering? Explain.

SECTION-C

- 16) Compare various testing techniques in terms of their advantages and disadvantages.
- 17) Current trends in software engineering are moving away from the waterfall model for large and moving towards iterative methods such as spiral model? What we are gaining and losing as a result? Explain with suitable examples.
- 18) What is six sigma? How it helps in increasing the quality of your project and product? Explain.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.