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Code No.8199

FACULTY OF SCIENCE

B.Sc. (CBCS) V - Semester Examination, November/December 2019

Subject: Computer Science (Software Engineering)

Paper: VI-B (DSE E-2)

Max. Marks: 60

Time: 3 Hours

Part – A (5x3 = 15 Marks)
(Short Answer Type)

Note: Answer any FIVE of the following questions.

1. Discuss different stages of software development process.
2. Explain the concept of traceability and validation of specifications.
3. Discuss the principles for architectural design.
4. Describe state machine diagram with an example.
5. Write good coding practices.
6. Explain Equivalence partitioning.
7. What is a decision tree? Give an example.
8. Write notes on debugging.

Part – B (3x15 = 45 Marks)
(Essay Answer Type)

Note: Answer ALL the following questions.

9. (a) Discuss generic software development process models with illustrations.
OR
(b) Describe the IEEE structure for SRS with its components.
10. (a) Discuss various architectural styles with examples and illustrations.
OR
(b) Describe object oriented design models.
11. (a) Explain various types of design patterns.
OR
(b) Describe all software quality metrics.
