

Roll No.

Total Pages : 03

BT-6/M-19

36117

SOFTWARE ENGINEERING

CSE-310N

Time : Three Hours]

[Maximum Marks : 75

Note : Attempt *Five* questions in all, selecting at least *one* question from each Unit. All questions carry equal marks.

Unit I

1. (a) What are key challenges facing software engineering? What are the importance of process models in software development? 7
- (b) With the neat diagram, explain the evolutionary development model of software development. 8
2. (a) Differentiate between RAD and prototype. 7
- (b) Explain the incremental process model with advantages and disadvantages. 8

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Unit II

3. (a) Give Software Requirements Specification (SRS) for developing a software for course management system. 7
- (b) What is the importance of software quality assurance in software engineering ? Explain the SQA activities. 7
4. (a) Draw DFD (level 0, 1 and 2) for software of payroll management system. 10
- (b) Discuss the different task in software risk management. 5

Unit III

5. What are the principal different between software design methodologies based on functional abstraction and those based on data abstraction ? Name the design techniques based on each of these two software design paradigm. 13
6. (a) How would you improve a software design that display very low cohesion and high coupling ? 8

- (b) Point out three important differences between the function oriented and object oriented approaches to software design. Validate your answer through suitable examples. 7

Unit IV

7. (a) What is the objective of system testing ? Explain the system testing techniques. 8
- (b) How the maintenance cost calculated ? Explain with example. 7
8. (a) Why integration testing required ? Explain the different integration testing methods. 8
- (b) Write down the debugging approaches for software project. 7