

Roll No.

Total Pages : 03

BT-6/M-19

36004

SOFTWARE ENGINEERING

CSE-308

Time : Three Hours]

[Maximum Marks : 100

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

Unit I

1. (a) What is Software ? What are the attributes of good software ? 10
- (b) Explain prototype model in detail. What is the effect of designing a prototype on the overall cost of the software project ? 10
2. (a) Discuss the role of planning in software project ? What are the advantages of using PERT charts in scheduling software project ? 10
- (b) Explain any *two* software cost estimation techniques using suitable example. 10

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Unit II

3. (a) What is the importance of software configuration management in software engineering ? 10
- (b) What do you mean by risk ? Explain the different types of software risks. 10
4. (a) What do you mean by Software Requirement Specification (SRS) ? What is its need ? Discuss various characteristics of SRS. 10
- (b) Explain the difference between structured analysis and object oriented analysis with the help of suitable example. 10

Unit III

5. (a) Define module cohesion and explain different types of cohesion. 10
- (b) Briefly illustrate feature of structured design and object oriented design. 10
6. Explain the following terms :
- (a) Defensive programming 10
- (b) Fault avoidance and fault tolerance. 10

Unit IV

7. (a) What are the different types of software maintenance? Why software maintenance is required? Discuss with example. 10
- (b) Why are three different level of testing, unit testing, integration testing and system testing necessary? Discuss the main purpose of each of these testing. 10
8. (a) Write a short note on computer aided software engineering (CASE) tools. 10
- (b) Design various tests cases to find out the roots of a quadratic equation using boundary value analysis and equivalence class partitioning. 10