

Roll No.

Total Pages : 03

BT-6/M-14

8604

SOFTWARE ENGINEERING

CSE-308

Time : Three Hours]

[Maximum Marks : 100

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

Unit I

1. (a) What is Software ? Explain various characteristics of a software. 8
- (b) Explain the Prototyping Model for software development with the help of block diagram. 12
2. (a) Explain various steps involved in scheduling a software project. How are various milestones decided on the basis of project schedule ? 10
- (b) Explain various types of software team structures ? Discuss what factors should be considered when structuring a software team. 10

Unit II

3. (a) Explain the Software Requirement Engineering Process with the help of block diagram. 10
- (b) What is meant by Software Change ? Explain the software change control procedure. 10
4. Explain the following : 20
- (a) Risk Management
- (b) Data Modeling.

Unit III

5. (a) What is Software Design ? How is it different from coding ? 8
- (b) Explain Structured Design Methodology by considering a suitable example. 12
6. Explain the following : 20
- (a) Software Reliability
- (b) Defensive Programming.

Unit IV

7. (a) Explain White Box Testing. What type of errors can be detected with the help of white box testing ? 10
- (b) Explain various steps involved in Software Debugging. How is debugging different from testing ? 10
8. Explain the following : 20
- (a) CASE Tools
- (b) Software Maintenance Tasks.