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.

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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.