

Printed Pages : 2

BT-6 / M-15

**SOFTWARE ENGINEERING**

**Paper-CSE-308, Opt. (II)**

*Time allowed : 3 hours]*

*[Maximum marks : 100*

*Note : Attempt any five questions selecting at least one question from each unit.*

**Unit-I**

1. (a) What is a software process ? Why is it important ? 8  
(b) Explain the Spiral Model for software development with the help of block diagram. 12
2. (a) Explain various steps involved in planning a software project. How various milestones are decided ? 10  
(b) How the software team is selected ? Discuss what factors should be considered when structuring a software team. 10

**Unit-II**

3. Explain the following :
  - (a) Project Monitoring
  - (b) Software Quality Assurance. 20

( 2 )

4. (a) What is meant by Software Risk ? Explain the Risk Management process with the help of suitable example. 10
- (b) Explain the characteristics of a good Software Requirement Specification document. 10

### Unit-III

5. Consider Student Examination System of any university as an example case and explain the Object Oriented Design methodology. 20
6. Explain the following :
- (a) Fault Avoidance and Tolerance
- (b) Exception Handling.

### Unit-IV

7. (a) What is Software Testing ? Explain various Software Testing principles. 8
- (b) What is Integration Testing ? What types of errors are detected during Integration Testing ? 12
8. Explain the following :
- (a) Software Debugging
- (b) Software Maintenance.

8604