

Time: 3 Hours

Max. Marks: 80

- N.B. (1) Question one is Compulsory.**  
**(2) Attempt any 3 questions out of the remaining.**  
**(3) Assume suitable data if required.**

**Q. 1 Solve any Four out of the following (5 marks each) 20M**

- Explain Software Process Umbrella Activities
- Explain software reengineering
- What is Capability Maturity Model (CMM) Explain different CMM levels
- Design User Interface for Online Shopping System
- Discuss limitations of Waterfall model & Spiral Model
- Draw Use Case Diagram for Hospital Management System

**Q. 2**

- What is Agile Process? Explain SCRUM Process Model with all activities **10M**
- What do you mean by Cohesion & Coupling? Explain different types of cohesion & Coupling **10M**

**Q. 3**

- What is Software Testing? Explain different types of software testing **10M**
- Define Risk? What are different categories of risks? Explain RMMM plan with suitable example. **10M**

**Q. 4**

- Explain & compare FTR & Walkthrough. **10M**
- Explain change control & Version Control **10M**

**Q.5**

- Explain different types of software maintenance. **10M**
- What is SRS? Prepare a SRS for Online Movie Booking System. **10M**

**Q. 6**

- List different metrics used for software measurement? Explain function point-based estimation technique in detail. **10M**
- Explain software design principles in detail illustrating with example **10M**