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**

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

Q. 2

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

Q. 3

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

Q. 4

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

Q.5

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

Q. 6

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

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56790 **Page 1 of 1**