

**Duration: 3Hours**

**[Max Marks:80]**

- N.B.: (1) Question No 1 is Compulsory.  
(2) Attempt any three questions out of the remaining five.  
(3) All questions carry equal marks.  
(4) Assume suitable data, if required and state it clearly.

- 1 Attempt any Four. [20]**
- a Briefly explain an Extreme Programming [5]
  - b What are the stubs and drivers? How they different from each other. [5]
  - c What is cyclomatic Complexity? Which are the different methods of computing it. [5]
  - d Explain any 2 requirement elicitation methods. [5]
  - e What are the advantages and disadvantages of prototype model. [5]
- 2 a Explain LOC and FP based cost estimation techniques. [10]**
- b Draw Use case diagram and Sequence Diagram for Hospital Management System. [10]**
- 3 a Explain the different Conventional testing methods. [10]**
- b Demonstrate Black Box Testing [10]**
- 4 a Develop the SRS for online shopping portal [10]**
- A) Product Perspective B)Scope and Objective C) Functional Requirements D) Nonfunctional Requirements
- b Draw the State Chart Diagram and sequence diagram for ATM system [10]**
- 5 a Discuss in detail about risk and its types. Elaborate steps involved in generating RMMM Plan. [10]**
- b Explain McCall's quality factor and SQA activities [10]**
- 6 a Explain with suitable diagram SCRUM Agile Process [10]**
- b Explain any 5 software design principles [10]**
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