

(Duration:3 Hours)

(Total: 80 Marks)

**NOTE : (1). Question number 1 is compulsory.
(2).Attempt any three questions from the remaining.
(3).Assume suitable data wherever necessary.**

- Q1. Solve any Four out of Six.(Each question carries 5 marks) (20)**
- (a) Explain what is software Engineering process and characteristics of a software?
 - (b) Explain the different ways to identify customer requirement for a software development by an organization?
 - (c) Discuss the various elements of Analysis Modelling in detail?
 - (d) Explain with example Earned Value Analysis?
 - (e) Explain the Golden rules of User- interface design?
 - (f) Explain FIX backlog and defective FIX in maintenance of Software Quality Metrics?
- Q2.(a) Explain advantages of Agile Process and Extreme Programming methodology in detail? (10)**
(b) Explain Evolutionary Process Model with example in detail (10)
- Q3.(a) Explain SRS and use-case Modelling in detail? (10)**
(b) Explain the Modularity in detail? (10)
- Q4.(a) Explain in detail the Software configuration Management Process and benefits of SCM (10)**
(b) Explain about COCOMO II Model with example? (10)
- Q5.(a) Explain about Project scheduling and tracking Technique? (10)**
(b) Explain Key concepts and elements of Six Sigma? (10)
- Q6. (a) Explain what is a risk? Different types of risk? and describe RMMM in detail? (10)**
(b) Explain the characteristics of good Test software and techniques involved in white box testing? (10)
