

1T01235 - T.E.(Information Technology Engineering)(SEM-V)(Choice Base Credit Grading System ) (R-19) (C Scheme) / 32424 - Software Engineering

QP CODE: 10040538

DATE: 1/12/2023

**(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)**

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