

Total No. of Questions : 10]

SEAT No. :

P3383

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**TE. (Computer Engineering)**

**Software Engineering And Project Management**

**(2015 Pattern) (Semester - I)**

*Time : 2½ Hours]*

*[Max. Marks : 70*

*Instructions to the candidates:*

- 1) *Attempt questions Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8, and Q.9 or Q.10*
- 2) *Neat diagrams must be drawn wherever necessary.*
- 3) *Assume suitable data, if necessary.*

- Q1)** a) What are the reasons to have a Software Process? What are the issues addressed by Umbrella Activities in layered Model of software engineering? [5]
- b) Explain how extreme programming process supports agility with its framework activities? [5]

OR

- Q2)** a) Explain with neat diagram incremental model and state its advantages and disadvantages. [6]
- b) Identify and briefly describe four types of requirements that may be defined for computer system. [4]

- Q3)** a) Explain the tasks done during Elicitation and Requirement Management. [5]
- b) Explain in detail Data-Centered Architectural Style. [5]

OR

- Q4)** a) Explain the user interface design issues. [4]
- b) Explain Object-Oriented view of component level design with suitable example. [6]

**P.T.O.**

- Q5)** a) What is project decomposition? What are the work tasks for communication. process using process decomposition? [6]  
 b) Explain the FP based estimation technique. [6]  
 c) Explain earned value analysis in project scheduling. [5]

OR

- Q6)** a) What is need of project estimation? What are the steps while estimation of software? [6]  
 b) What is time line chart? Explain with a suitable example. [6]  
 c) Explain W5HH Principle in detail. [5]

- Q7)** a) Explain the SCM repository in detail. What are advantages of SCM repository? [6]  
 b) Explain RMMM Plan with suitable example. [6]  
 c) Explain Business Process Reengineering model? [4]

OR

- Q8)** a) Which are the layers of SCM process? Explain each in detail. [6]  
 b) What is Risk Identification? What are the different categories of risks? [6]  
 c) Differentiate between Software Reengineering & Restructuring? [4]

- Q9)** a) What is software testing? Explain the software testing strategies for software development? [7]  
 b) What are the debugging tactics? How Bug Reporting is done? [6]  
 c) Differentiate between verification & validation in detail. [4]

OR

- Q10)** a) Draw the flow graph for finding minimum of five numbers and derive the test cases using cyclomatic complexity. [8]  
 b) Write a short note on Test Management and Automation. [4]  
 c) What is GUI testing? Explain in detail. [5]

