

Total No. of Questions : 8]

SEAT No. :

P1510

[5460]-189

[Total No. of Pages : 2

**T.E. (Computer Engineering)
SOFTWARE ENGINEERING
(2012 Pattern) (Semester - II) (310252)**

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) *Solve question number 1 or 2, 3, or 4, 5 or 6 and 7 or 8.*
- 2) *Neat diagram must be drawn whenever necessary.*
- 3) *Figures to the right indicate full marks.*
- 4) *Assume suitable data, if necessary.*

- Q1)** a) Describe the different box specification in Cleanroom engineering? Explain. [7]
b) For banking system, make your assumptions about the scope of the system, identify four use cases and depict them in diagram. [7]
c) Explain data centered layered architectures with neat diagrams. [6]

OR

- Q2)** a) Explain the characteristics of SRS? [6]
b) What do you mean by CRC? Write the steps for identifying analysis classes using CRC modeling. [7]
c) Explain Component-Level Design for WebApp. [7]

- Q3)** a) What is unit testing? Explain unit testing process. [5]
b) Distinguish i) White box testing and Black Box Testing [6]
ii) Regression testing and Retesting [6]
c) Draw the flow graph for finding maximum of three numbers and derive the test case using cyclomatic complexity. [6]

OR

- Q4)** a) Explain Boundary value analysis testing and orthogonal Array testing. [5]
b) Explain the Testing Concepts for WebApps. [6]
c) What are the objectives of testing? What are Testing strategies for conventional and object oriented software? [6]

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- Q5)** a) What is process decomposition? What are the work tasks for communication process using process decomposition? [5]
b) Explain metric for object oriented projects. [6]
c) Explain Process-Based Estimation. [6]

OR

- Q6)** a) What is the difference between Measure and Metric? What are attributes of effective Software Metric? [5]
b) What is Software configuration management? Explain the change control mechanism in software configuration management. [5]
c) What is Risk identification? What are the different categories of risks?[7]

- Q7)** a) Explain Aspect oriented software engineering? [5]
b) Describe Z specification Language? [5]
c) Discuss architectural patterns in details. [6]

OR

- Q8)** a) Discuss client server computing? Explain. [5]
b) What are the benefits and problems of reusing software when developing new systems? [5]
c) Explain Distributed software engineering? [6]

