

Total No. of Questions : 10]

SEAT No. :

P2613

[5153]-589

[Total No. of Pages : 2

**T.E. (Computer Engineering)
SOFTWARE ENGINEERING**

(2012 Pattern) (Semester - II) (310252) (End Sem.)

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) *Answer Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8, Q9 or Q10.*
- 2) *Neat diagrams 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? [5]**
b) Provide an overview of the evolutionary development approach and identify key areas of advantage over more traditional development approaches. [5]

OR

- Q2) a) The concurrent process model defines a set of “states”. Describe what these states represents in your own words, and then indicate how they come in to play within the concurrent process model. [5]**
b) Describe the term “Requirement Elicitation”. [5]
- Q3) a) Discuss the importance of data abstraction in the software design. [5]**
b) Illustrate the term cohesion and coupling in the context of software design? How are these concepts useful in arriving at a good design of a system?[5]

OR

- Q4) a) Compare structured analysis and object oriented strategies for requirements analysis. [5]**
b) Explain the quality attributes, considered in software design. [5]

P.T.O.

- Q5)** a) Discuss testing. Explain unit testing process. [5]
b) Compare software testing with debugging. [5]
c) Draw the flow graph for finding maximum of three numbers and derive the test case using cyclomatic complexity. [7]

OR

- Q6)** a) Explain Boundary value analysis testing and orthogonal Array testing. [5]
b) Explain regression testing. [5]
c) Analyze the objectives of testing? What are Testing strategies for conventional and object oriented software? [7]

- Q7)** a) Explain COCOMO II model. [5]
b) Differentiate between Measure and Metric? Identify the attributes of effective Software Metric? [5]
c) Explain Earned Value Analysis in project scheduling. [7]

OR

- Q8)** a) Explain time line chart. Explain with suitable examples. [5]
b) Describe project scheduling? What are the basic principles of project scheduling? [5]
c) Illustrate process decomposition? What are the work tasks for communication process using process decomposition? [7]

- Q9)** a) Explain Aspect oriented software engineering. [5]
b) Describe Z specification Language? [5]
c) Discuss architectural patterns in details. [6]

OR

- Q10)** a) Illustrate the client server computing. [5]
b) Interpret the benefits and problems of reusing software when developing new systems? [5]
c) Explain Distributed software engineering? [6]

