

Total No. of Questions : 8]

SEAT No. :

P4579

[Total No. of Pages : 2

[5669]-115
T.E. (Computer Engineering)
SOFTWARE ENGINEERING
(2012 Pattern)

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) *Answers Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7, or Q.8.*
- 2) *Neat diagrams must be drawn wherever necessary.*
- 3) *Figures to the right indicate full marks.*
- 4) *Assume suitable data if necessary.*

Q1) a) For banking system make your assumptions about the scope of the system. identify four use cases and depict them in diagram. [7]

b) Describe the different box specification in Cleanroom engineering? [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) 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]

OR

Q4) 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.

c) Draw the flow graph for finding maximum of three numbers and derive the test case using cyclomatic complexity. [6]

P.T.O.

- Q5)** a) Explain COCOMO II model. [6]
b) Explain metric for object oriented projects. [6]
c) Explain the decision tree for make/buy decision. [5]

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]

