

Total No. of Questions :10]

SEAT No. :

P1760

[5058]-400

[Total No. of Pages :2

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

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

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 diagram must be drawn whenever necessary.*
- 3) Figures to the right indicate full marks.*
- 4) Assume suitable data, if necessary.*

- Q1)** a) What is software engineering? What are the characteristics of software?[5]
- b) Explain in detail the Unified process indicating workflows and process phases. What are the advantages of iterative development? [5]

OR

- Q2)** a) What do you understand with the Validating requirements? [5]
- b) Explain Behavioral model and what types of “states” behavioral model represents? [5]
- Q3)** a) Describe the User Interface analysis and design process with diagram and Explain interface design element. [5]
- b) What do you mean by 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) What is the fundamental difference between the structured analysis and object oriented strategies for requirements analysis. [5]
- b) Explain the quality attributes, considered in software design. [5]

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- Q5)** a) What do you understand by the term integration testing? Which types of defects are uncovered during integration testing. [5]
b) What is the difference between alpha testing and beta testing? [5]
c) What do you understand by White box testing? [7]

OR

- Q6)** a) Explain Boundary value analysis testing and orthogonal Array testing. [5]
b) Explain smok testing and regression testing? [5]
c) Basis path testing is covers all statement in program module. Justify with example. [7]
- Q7)** a) Explain COCOMO II model. [5]
b) List the four P's of software project management spectrum. Explain how "the people" factor contributes towards the success of the software project. [5]
c) Explain the decision tree for make/buy decision. [7]

OR

- Q8)** a) What is project scheduling? What are the basic principles of project scheduling? [5]
b) What is time line chart? Explain with suitable examples. [5]
c) What is Risk identification? What are the different categories of risks? [7]
- Q9)** a) What is Service-oriented architecture? [5]
b) What is OCL? Where it is used? [5]
c) Discuss architectural patterns in details. [6]

OR

- Q10)** a) What is client server computing? Explain. [5]
b) Explain ISO 9126 Quality Factors. [5]
c) What are formal methods for software development? [6]

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