

Total No. of Questions : 12]

SEAT No. :

P3314

[Total No. of Pages : 2

[5353]-189

T.E. (Computer Engineering) (Semester - II)

SOFTWARE ENGINEERING

(2012 Pattern)

Time : 2.30 Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) Neat diagrams must be drawn wherever necessary.
- 2) Figures to the right indicate full marks.
- 3) Assume Suitable data if necessary.
- 4) All questions are compulsory.

Unit-I

Q1) What is meant by engineering the software? Why software processes are required? [7]

OR

Q2) What are the objectives of Personal Software Process (PSP) and Team Software Process (TSP)? [7]

Unit-II

Q3) What are requirements engineering tasks? How use cases can be used to model the requirements? [7]

OR

Q4) Explain the analysis model with its elements? How analysis classes are identified? [7]

Unit-III

Q5) What is the relationship between modularity & functional dependence? Explain with example. [6]

OR

Q6) What is the relationship between user model and design model? Explain with example. [6]

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Unit-IV

- Q7)** a) Testing follows an Outward approach, starting at Component level and moves towards component integration. Justify with suitable example. [9]
b) Explain Condition testing and data flow testing with example. [8]

OR

- Q8)** a) What is the difference between test stub and driver? Define Cyclomatic Complexity? [9]
b) What categories of errors are traceable using Black Box testing? Explain in brief. [8]

Unit-V

- Q9)** a) Explain the change control mechanism in software configuration management with example. [9]
b) Compare software metric and measurement. State the measurement principles. [8]

OR

- Q10)** a) What is LOC - based estimation? Explain with a suitable example. [9]
b) What is Risk identification? What are the different categories of risks? [8]

Unit-VI

- Q11)** a) What is software quality and how it is measured? Give suitable example. [8]
b) What is Service oriented architecture (SOA)? How SOA helps software engineers? [8]

OR

- Q12)** a) What are characteristics and benefits of SOA? [8]
b) Differentiate the Object Constraints language and Z specification language? [8]

