Total No. of Questions :12]

SEAT No. :

P2456

[Total No. of Pages :3

[5153] - 90
T.E. (Computer Engineering)
SOFTWARE ENGINEERING
(2008 Course) (Semester - II) (310253)

Time : 3 Hours] *[Max. Marks :100*

Instructions to the candidates:

1) ***Answers to the two sections should be written in separate answer books.***
2) ***Answer three questions from section I and three questions from section - II.***
3) ***Neat diagrams must be drawn wherever necessary.***
4) ***Figures to the right side indicate full marks.***
5) ***Assume suitable data if necessary.***

SECTION-I

Q1) a) Explain the software myths of a developer and manager. **[8]**

b) What are the advantages of an evolutionary process model? Explain with a process model. **[8]**

OR

Q2) a) Explain the incremental process model. **[8]**

b) What is an agile process model? Explain how Extreme programming supports agile process. **[8]**

Q3) a) Explain the requirement analysis with usecases and actors. **[8]**

b) How data flow modeling is used in requirements modeling? **[8]**

OR

Q4) a) Explain the requirement elicitation task in requirements engineering. **[8]**

b) Explain the class based modeling with an example. **[8]**

P.T.O.

Q5) a) Explain the following design concepts. **[10]**

i) Abstraction

ii) Modularity

iii) Software architecture

iv) Cohesion

b) Explain user interface design process. **[8]**

OR

Q6) a) Explain any three software architecture styles. **[10]**

b) What are the design issues in user interface design? **[8]**

SECTION-II

Q7) a) Give the strategies of testing. Explain the unit testing strategy. **[10]**

b) Explain the performance and acceptance testing methods. **[8]**

OR

Q8) a) Give the test case derivation loop testing and condition testing. **[8]**

b) What is black box testing? How it is done using boundary value analysis and equivalence partitioning. **[10]**

Q9) a) Differentiate measurement and metric. Explain GQM. **[8]**

b) Explain the process based estimation. **[8]**

OR

Q10)a) Explain the size and function oriented metrics and how they are used in software estimation. **[8]**

b) How effort estimation is carried out in COCOMO? **[8]**

Q11)a) Explain the importance of tracking the schedule. Describe the use of timeline chart for scheduling. **[8]**

b) Compare proactive and reactive risk and expalin risk identification in proactive risk management. **[8]**

OR

Q12)a) What is software configuration management? Explain the SCM process. **[8]**

b) Explain the FURPS quality factors. **[8]**

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