Total No. of Questions: 12]	SEAT No. :
P1423	[Total No. of Pages: 3

[4858] - 190

T.E. (Computer Engineering) (Semester - II) SOFTWARE ENGINEERING (2008 Pattern)

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) What is a process model? Explain the general process framework activities of the Software Process. [6]b) Explain the prototyping model with its advantages and disadvantages.
 - c) State the myths and realities of a practitioner? [6]

OR

- Q2) a) Explain the spiral model as an evolutionary process model. [6]
 - b) Explain the characteristics of software that differ from hardware. [6]
 - c) What are the advantages of an agile process? Explain with a process model. [6]
- Q3) a) Explain the flow oriented modeling in requirement analysis. [8]
 - b) How to build the behavior model with a state diagram? Explain with an example. [8]

[6]

Q4)	a) Identify the actors, usecases and give the Use case diagram taxi booking system" with three functionalities.				
	b)	State the tasks of Requirements Engineering. Explain any one requirement elicitation method. [8]			
Q5)	a)	Explain Layered and Call and return architectural styles. [8]			
	b)	Explain Abstraction and Functional independence in software design. [8]			
OR					
Q6)	a)	Explain any two user interface design issues. [8]			
	b)	Explain the design elements of interface and data design. [8]			
SECTION - II					
Q 7)	a)	Give the importance of software testing. Explain the unit testing strategy. [6]			
	b)	Explain any two white box testing methods. [6]			
	c)	Explain the debugging process. [6]			
OR					
Q 8)	a)	Explain any two system testing methods. [6]			
	b)	What is loop testing and how test cases are derived in loop testing.[6]			
	c)	How validation testing methods test the conformity with requirements?			
		[6]			
Q9)	a)	Compare and explain the size oriented and function oriented metrics. [8]			
	b)	Explain the LOC based estimation method. [8]			
	OR				

Q10) a)	Explain the COCOMO II model for estimation.	[8]
b)	Explain the role of people in project management.	[8]
Q11) a)	Explain the following in brief.	[8]
	i) Risk Identification	
	ii) Change management	
b)	Explain the quality factors of software.	[8]
	OR	
Q12) a)	Explain the scheduling of project with task network.	[8]
b)	Explain in brief the layers of Software Configuration process.	Management [8]
