SEAT NO.:

[Total No. of Pages : 2]

T.E. 2008 (Software Engineering)

(Semester - I)

	e: 3 He		Max. Marks: 100	
1) 2) 3) 4)	Answe Answe Neat of Figure Use of	to the candidates: ers to the two sections should be written in separate answer books. er any three questions from each section. diagrams must be drawn wherever necessary. es to the right side indicate full marks. f Calculator is allowed. ne Suitable data if necessary		
		SECTION I		
Q1)	a) b)	Software Engineering is considered as layered technology. Comment Explain Agile Process Model.	[9] [9]	
0.0		OR		
Q2)	a) b)	What is software process model? Explain RAD model Explain in detail Personal and Team process model	[9] [9]	
Q3)	a)	Explain Domain analysis. Discuss in short Data objects, cardinality and modularity in data models.	[8]	
	b)	What is meant by normal and exciting requirements? How requirements are validates?	[8]	
		OR		
Q4)	a)	Draw level 0, level 1, and level 2 data flow diagram for Railway reservation system. System keeps the track of ticket booking, ticket cancellation for the	[8]	
	b)	passengers. The system generates a report of the revenue collection for each train. What is meant by requirement specifications? What are the characteristics that requirement must meet?	[8]	
		OR		
Q5)	a) b)	What is Design pattern? How patterns used and designed? Explain the following architectural styles: 1. Data centered architecture 2. Data flow architecture	[8] [8]	
		OR		
Q6)	a) b)	Explain various steps for User Interface Design. Explain Web Design Pyramid. What are Interface Design Principles for web applications?	[8]	
		SECTION II		
Q7)	a)	What are strategic issues in software testing? Explain in brief: 1. Recovery testing	[8]	
		2. Performance testing		
	b)	What is difference between verification and validation testing?	[4]	
	c)	Define Cyclomatic Complexity. What are the three ways to calculate it?	[4]	
		OR		
Q8)	a) b)	What is black box testing? What are the ways to perform black box testing? What is difference between testing and debugging? Explain in detail debugging	[8] [8]	

		process.	
Q9)	a)	Explain size oriented metric. What data should we collect to derive size oriented	[4]
		metric?	
	b)	What do you mean by DRE? What is the significance of DRE in maintaining	[4]
		software quality?	
	c)	Explain the COCOMO-II estimation model.	[8]
	,	OR	
Q 10)	a)	What is the objective of software measurement? Explain the LOC based software	[8]
,	,	estimation in brief.	
	b)	Explain the 4P's involved in software project management. Explain the W5HH	[8]
		principles	
Q 11)	a)	What is RMMM? Explain in detail.	[9]
Q 11)	b)	What is project scheduling? What are basic principles of project scheduling?	[9]
	9	OR	
Q12)		Write short note on:	[18]
		Software configuration management	
		2. Software quality assurance	
		3. Change control process	