Total No. of Questions: 10	

SEAT No. :	
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[4758]-597

	T.E. (Information Technology)			
	SOFTWARE ENGINEERING			
(Semester - I) (2012 Course) (End - Semester)				
Time: 3 Hours] [Max				
Instructi	ons to the candidates:			
1)	Answer Q.No.1 or 2, Q.No.3 or 4, Q.No.5 or 6, Q.No.7 or 8, Q.9 or Q.10.			
2)	Draw neat diagrams wherever necessary.			
3)	Assume suitable data if necessary.			
<b>Q1)</b> a)	Explain different aspects of software process model. [5]			
b)	Elaborate how software engineering is a layered technology. [5]			
	OR			
<b>Q2)</b> a)	What is extreme programming? List the drivers which are treated as XP values. [5]			
b)	Explain agile process model. [5]			
<b>Q3)</b> a)	Describe the steps of scenario based modeling with a suitable example.[5]			
b)	What is requirements engineering. [5]			
OR				
<b>Q4)</b> a)	Explain activities and the steps used for negotiating software requirements.  [5]			

	b)	Wha	at is data modeling? Explain following term in data modeling.	[5]
		i)	Data objects	
		ii)	Data attributes	
		iii)	Relationships	
Q5)	a)	Exp	lain following concepts in the context of software design.	[8]
		i)	Abstraction	
		ii)	Modularity	
		iii)	Information Hiding	
		iv)	Functional Independence	
	b)	Illus	strate how requirements model is translated to design model.	[8]
			OR	
Q6)	a)	_	lain software design model with reference to process and abstractension.	tion [8]
	b)	Wha	at is data-centered architecture? Explain with an example.	[8]
Q7)	a)	Disc	cuss the user-centered design process.	[8]
	b)	Exp	lain Shneiderman's Golden Rules of UI design.	[8]
			OR	
Q8)	a)	Disc	cuss in details.	[8]
		i)	Fitt's law.	
		ii)	Hick's law.	
	b)	Exp	lain the analysis and design process of user-interfaces.	[8]

- **Q9)** a) What is the goal of cleanroom testing? Discuss in brief the statistical use testing. How do we certify a software component in cleanroom testing [10]
  - b) What is software configuration management repository? Discuss role and features of SCM repository. [8]

OR

## *Q10*) Write short notes on ANY THREE:

[18]

- a) CASE tools
- b) Technology evolution
- c) Test driven development
- d) Model driven development

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