Total No. of Questions: 12]		SEAT No. :
P2359	[4758]-100	[Total No. of Pages : 3

[4758]-100 T.E.(I.T)

SOFTWARE ENGINEERING (2008 Course) (Semester-I) (310253) Time: 3 Hours] [Max. Marks : 100] Instructions to the candidates: Answers to the two sections should be written in separate books. 2) Answer any three questions from each section. 3) Neat diagrams must be drawn wherever necessary. Figures to the right side indicate full marks. 4) Use of Calculator is allowed. *5*) Assume suitable data if necessary. *6*) **SECTION-I** Define software engineering. What are the software characteristics? What *Q1*) a) are the various categories of software? [10] State and explain customer's myths. [4] b) c) Explain in detail software crises. [4] OR What is software process model? Explain the incremental process model. *02*) a) [8] Explain in detail process pattern. b) [6] What are the management myths? c) [4] Explain the scenario based elements of analysis model in detail. **Q3)** a) [8] Explain in detail requirement engineering task. b) [8] OR What are the characteristics that requirement must meet? *Q4*) a) [6] Draw and explain the traceability table for requirement management. [6] b) Describe two real time situation in which the customer and the end-user c)

is same. Describe two situation in which they are different.

[4]

Q5)	a)	What are the design quality guidelines?		[8]
	b)		at are the elements in data design? What are the guidelines for design?	the [8]
			OR	
Q6)	a)	Exp	plain the Web Application Architecture.	[8]
	b)	Wha	at are the interface design principles and guidelines?	[8]
			SECTION-II	
Q7) a)			at is importance of testing practices? What are the principles of test ctices?	ing [8]
	b)	Exp	plain in detail:	[8]
		i)	Top-down integration testing.	
		ii)	Bottom-up testing.	
			OR	
Q8)	a)	What is cyclomatic complexity? How is it determined for Illustrate with example.		ph? [8]
	b)	e) Explain following testing types:		[8]
		i)	Validation testing.	
		ii)	Acceptance testing.	
		iii)	Smoke testing process.	
Q9)	a)	What are the categories of stakeholders? What are the characteristics effective project manager?		s of [8]
	b)		at are the attributes of effective software metrics? Explain in de ect Removal Efficiency.	tail [8]
			OR	

Q10) a)	How do you measure software quality in terms of maintainability are integrity?	
b)	What is Object Oriented metric?	[6]
c)	Explain size oriented metric? What data should we collect to de oriented metrics?	rive size [4]
<i>Q11)</i> a)	What are the software quality factors? Explain any four.	[12]
b)	What are the types of risks? Explain in brief.	
	OR	
Q12) a)	What is configuration audit? What is status reporting?	
b)	Write short note on:	[10]
	i) RMMM.	
	ii) Change control process.	

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