Tota	ıl No	o. of Questions : 12]	SEAT No. :
P2458		[5153]-	-92 [Total No. of Pages : 3
		T.E. (Information	Technology)
		SOFTWARE EN	GINEERING
		(2008 Pattern) (Semester - I)
Tim	e:3	Hours]	[Max. Marks : 100
Inst	ructi	ions to the candidates:	·
	1)	Answers to the two sections should be	
	<i>2)</i>	Answer any three questions from each	
	3) 4)	Neat diagrams must be drawn wherever Figures to the right side indicate full n	•
	<i>5)</i>	Use of Calculator is allowed.	
	<i>6)</i>	Assume Suitable data, if necessary.	
		<u>SECTIO</u>	<u> </u>
Q1)	a)	Explain the following models	[10]
		i) Waterfall Model	
		ii) Concurrent Model	
	b)	What are process Models? Explain Software Process.	in Personal Software Process and Team [8]
		OR	
Q2)	a)	Software Engineering is consider	ed as layered technology. Comment.[9]
	b)	Explain Agile Process Model.	[9]
Q 3)	a)	Draw E-R diagram for relationship	between customer and banking system. [6]

- b) Draw and explain the traceability table for requirement management. [6]
- c) Describe two real time situation in which the customer and the end-user is same. Describe two situation in which they are different. [4]

OR

Q4)	a)	What is meant by requirement specifications? What are the characteristics that requirement must meet? [8]					
	b)	What is meant by normal and exciting requirements? How requirements are validates? [8]					
Q5)	a)	Explain the goals of design process? [8]					
	b)	Explain Data-centered architecture and Data-Flow architecture. [8]					
		OR					
Q6)	a)	What are the elements in data design? What are the guidelines for the data design? [8]					
	b)	What are the interface design principles and guidelines? [8]					
	SECTION-II						
Q7) a) What is cyclomatic complexity? How is it Illustrate with example.		What is cyclomatic complexity? How is it determined for a flow graph? Illustrate with example. [8]					
	b) What are the testing strategies for web application? Explain the testi process for web application.						
		OR					
Q8)	a)	What is black box testing? What are the ways to perform black box testing? [8]					
	b)	What is verification testing and validation testing? Explain in brief. [8]					
201							
Q9)	a)	What are the categories of stakeholders? What are the characteristics of effective project manager? [8]					
	b)	Explain the COCOMOII estimation model. [8]					
		OR					

Q10):	(0)a) What are the ways in which software estimation can be classified Elaborate.		[6]			
ł	b)	What is FPA? Explain in brief.				
Q11) a) What are the software quality factors? Explain any four.		What are the software quality factors? Explain any four.	[12]			
ł	b)) What are the types of risks? Explain in brief.				
OR						
Q12) Write short notes on:			[18]			
8	a)	Software quality assurance (SQA).				
ł	b)	Change control process.				
(c)	Earned value analysis.				

* * *