Total No. of Questions: 10	Total No	. of (Duestions	:10
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SEAT No.:	SEAT No.:	
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B.E. (Computer Engineering)

SOFTWARE DESIGN METHODOLOGIES AND TESTING

(2012 Pattern) (Semester - II) (410449)

Tim	e:2	[Max. Marks	:70		
Insti		ions to the candidates:			
	1) 2)	Neat diagrams must be drawn wherever necessary. Assume suitable data, if necessary.			
Q1)	a)	Explain Aggregation, Composition and Generalisation with reference Class Diagram?	e to [5]		
	b)	Explain briefly Web Service Protocols.	[5]		
OR					
Q2)	a)	Draw use case diagram for online digital Library information system wall advanced notations.	ith [5]		
	b)		ith [5]		
Q3)	a)	What do you mean by software design? Explain its importance.	[5]		
	b)		vill [5]		
		OR			
Q4)	a)	What is 4+1 architecture view model? Explain with suitable diagram.	[5]		
	b)	Describe Real time Software architecture in brief.	[5]		
Q5)	a)	Explain V test model with suitable block diagram?	[8]		
	b)	Differentiate between verification and validation?	[8]		
		OR			

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<i>Q6)</i>	a)	Explain various principle of testing?	[8]
	b)	What is defect management? Discuss the generic steps in defining management process?	fect [8]
Q7)	a)	Explain Equivalence partitioning and Boundary value analysis in bl box testing.	ack [6]
	b)	Explain system testing. What is the significance of system testing?	[6]
	c)	For the given piece of code, draw flow graph and compute the cyclomic complexity of the same.	atic [6]
		int fl(int x,int y)	
		{	
		while $(x != y)$	
		if (x>y) then	
		X=X-Y;	
		else y=y-x;	
		}	
		return x;	
		}	
		OR	
Q8)	a)	Differentiate between alpha and beta testing.	[6]
	b)	Explain integration testing? Explain Big-bang approach of integrat testing?	ion [6]
	c)	What is unit testing? List the benefits of unit testing.	[6]
Q9)	a)	Difference between functional and nonfunctional testing.	[8]
	b)	Differentiate between automated and manual testing?	[8]
		OR	
Q10) a)	What is mobile testing? Mention the challenges in mobile testing?	[8]
	b)	Write short note on:	[8]
		i) JUnit	
		ii) Selenium	
		$\mathcal{E}\mathcal{E}\mathcal{E}$	
[515	[4] - (