B.E.(with Credits)-Regular-Semester 2012-Computer Science and Engineering Sem V CSE501 - Object Oriented Analysis and Design

P. Pages : 2 Time : Three Hours			Durs * 3 9 5 1 *	GUG/W/16/3701 Max. Marks : 80	
	Note	s :	 All questions carry equal marks. Illustrate your answers wherever necessary with the help of neat Due credit will be given to neatness and adequate dimensions. Assume suitable data wherever necessary. 	sketches.	
1.	a)	Wh	at is object orientation ? Explain characteristics of object orientation.	8	
	b)	Hov Exp	v does object oriented methodology differs from other programming r lain with example.	nethodology. 8	
			OR		
2.	a)	Diff	erentiate the following.	8	
		i)	Encapsulation and polymorphism		
		ii)	Inheritance and Generalization		
		iii)	Module and sheet		
		iv)	Aggregation and association		
	b)	Wh	tt is an abstract class ? Explain abstract operation with examples.	8	
3.	a)	Wh	at is functional modeling? Explain elements of functional modeling.	8	
	b)	Diff	erentiate object modeling and dynamic modeling.	8	
			OR		
4.	a)	Elał	orate on OMT methodology.	8	
	b)	Dev	elop an analysis model for student information system.	8	
5.	a)	Exp	lain in detail the various considerations in choosing among alternative	e algorithm. 8	
	b)	Wh	tt is UML ? Explain UML diagram.	8	
			OR		
6.	a)	Exp	lain design of associations in detail.	8	
	b)	Wh	t is modeling ? Explain the basic principles of modeling.	8	

7.	a)	Draw activity diagram for vending machine.				
	b)	Give use-case diagram for library management system.				
		OR				
8.	a)	Differentiate the following -	8			
		i) State and event				
		ii) Transition and guard condition				
		iii) Activity and action				
		iv) Fork and join				
	b)	Draw state diagram for telephone line.	8			
9.	a)	Write a note on "patterns & framework".	8			
	b)	Draw a deployment diagram for a web based university management system which has two server's connected to each other, one is web server on which all the components are lying & other is database server on which the data components are installed this system has four different clients.				
	OR					
10.	a)	Differentiate between component diagram and deployment diagram.	8			
	b)	Define the following with respect to architectural modeling.	8			
		i) Component				

- ii) Device
- iii) Processor
- iv) Connection
