B.E. (Computer Engineering) Fourth Semester (C.B.S.) **Object Oriented Methodology**

P. Pages: 2 Time: Three Hours			s	NRT/KS/19/3392 Max. Marks: 80	
	Notes	3: 1. 2. 3. 4. 5. 6. 7. 8. 9.	All questions carry marks as indicated. Solve Question 1 OR Questions No. 2. Solve Question 3 OR Questions No. 4. Solve Question 5 OR Questions No. 6. Solve Question 7 OR Questions No. 8. Solve Question 9 OR Questions No. 10. Solve Question 11 OR Questions No. 12. Due credit will be given to neatness and adequate dimensions. Assume suitable data whenever necessary. Diagrams and chemical equations should be given whenever necess	ary.	
1.	a)	What as	re object oriented Themes? Explain it with an example.		7
	b)	What is	meant by object - oriented modelling? Explain the various stages of	OMT.	6
			OR		
2.	a)	Explain	Abstraction and Encapsulation.		6
	b)	What d	o you mean by link and association. Also explain candidate key.		7
3.	a)	Explain	scenario and event trace with example.		4
	b)	Draw a	nd explain state diagram of Car with example.		6
	c)	Write sl	hort note on aggregation concurrency.		4
			OR		
4.	a)	What a	re the steps performed in functional modeling? Explain.		6
	b)	What d	o you mean by constraints & control flow.		4
	c)		a DFD for computing the volume & surface area of a cylinder. Input s of the cylinder. Output are volume & surface area.	s are heights	4
5.	a)	Draw o	bject diagram for ATM system with attribute and inheritance.		7
	b)	State an	nd explain various phases of dynamic modeling.		6
			OR		
6.	a)	Write s	hort note on refining the object model.		6
	b)	Explain	the steps performed in construction of object model.		7

7.	a)	Explain following						
		i) Batch transformation.						
		ii) Continuous transformation.						
	b)	Explain phases involved in system design during object oriented development.						
		OR						
8.	a)	Explain the following with example.	6					
		i) Transaction manager						
		ii) Dynamic simulation						
	b)	What are the advantages & disadvantages of using database system over simple files.	8					
9.	a)	Write short note on	6					
		i) One-way association in object design.						
		ii) Two - way association in object design.						
	b)	What are different issues involved in physical packaging? Explain.	7					
		OR						
10.	a)	How algorithm are chosen during object design? Explain in detail?	7					
	b)	Explain the technique of converting a state diagram to code.	6					
11.	a)	Compare JSD with OMT.	4					
	b)	Write short note on:	9					
		i) Robustness						
		ii) Reusability						
		iii) Extensibility						
	OR							
12.	a)	Explain implementation using programming language.	7					
	b)	Explain the role of programming in large on programming style.	6					
