B.E. (Electronics Engineering / Electronics Telecommunication Engineering / Electronics Communication Engineering) Third Semester (C.B.S.)

Object Oriented Programming & Data Structure

P. Pages: 2 Time: Three Hours				NRJ/KW/17/4355/4360 Max. Marks : 80	
	Notes	5: 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. Illustrate your answers whenever necessary with the help of neat sketch Use of non programmable calculator is permitted.	nes.	
1.	a)	Explain	data types in C++ & operators in C++.	7	
	b)	List and	explain the types of constructor.	6	
			OR		
2.	a)	Write a	short note on exceptional Handling.	7	
	b)	Describ	e with example the elements of OOPs.	6	
3.	a)	Explain	unary and binary operators with an example.	8	
	b)	What is	function overloading.	5	
			OR		
4.	a)	Explain	the rules which are used to overload operators.	6	
	b)	Explain	genetic programming.	7	
5.	a)	Explain	multilevel inheritance with on example.	9	
	b)	What is	the use of virtual function.	5	
			OR		
6.	a)		program using multiple inheritance to get the data from two base classes it by using are derived class.	s and 8	
	b)	Write a	short note on hybrid inheritance.	6	
7.	a)	WAP in	C++ to implement the bubble sort technique.	8	
	b)	Explain	binary search with on example.	5	
			0.70		

OR

8.	a)	54, 26, 93, 17, 77, 31, 44, 55, 20	6
	b)	Explain selection sort technique with an example.	7
9.	a)	WAP to implement stack using linked list.	8
	b)	Explain Queue with example. What operation can be performed with it?	6
		OR	
10.	a)	Compare	6
		a) Stack and Queue	
		b) Linked list and array.	
	b)	What is linked list? What operations are performed on linked list?	8
11.	a)	Discuss representation of binary tree with an example.	6
	b)	WAP to create a binary tree.	7
		OR	
12.	a)	Construct a binary tree In order: 20, 30, 40, 25, 50, 125, 175, 150, 100 Pre order: 20, 25, 30, 40, 100, 125, 150, 175	7
	b)	Explain the following:	6
		a) Inorder	
		b) Perorder	
		c) Postorder traversal	
