## B.E. (Computer Science Engineering) Fifth Semester (C.B.S.) **Object Oriented Programming**

P. Pages: 2 Time: Three Hours					<b>TKN/KS/16/7438</b> Max. Marks: 80	
	Note	s: 1. 2. 3. 4. 5. 6. 7. 8. 9.	Assume suitable data	Questions No. Questions No. Questions No. Questions No. Questions No. Questions No to Questions No en to neatness a wherever neces	2. 4. 5. 8. 10. 12. Ind adequate dimensions. sary.	
1.	a)	Differ	entiate between Procedur	re Oriented Pro	gramming & Object Oriented Pr	rogramming. 6
	b)	i) E	in following terms with e Encapsulation. nheritance.	example. ii) iv)	Polymorphism. Late binding.	8
				O	R	
2.	a)	Differ	entiate between Static &	Non Static data	n members.	4
	b)	Explain the concept of Arrays of objects with suitable example.				6
	c)	Write a program to find the area of various Geometrical constructs like circle, Triangle rectangle etc. using constructor.				Triangle 4
3.	a)	What	is the use of :: operator in	n C++?		4
	b)	Explai	in pointer and Array with	example?		6
	c)	Write a program to overload binary operator using member function.				
				0	R	
4.	a)	Explain function prototype & default argument in C++ with example.				6
	b)	Explain NEW & DELETE operator in C++ with example.				7
5.	a)	What	are the different access sp	pecifiers used i	n C++?	3
	b)	What	is containership or classe	s within classe	s? Explain with example.	6
	c)	Differ	entiate between function	overloading &	function overriding.	4

www. <b>6.</b>	rtmnu a)	What is inheritance? What are different types of inheritance? Explain any one type of inheritance with an example.						
	b)	Write a program using constructor overriding.						
7.	a)	What is 'this' pointer? Give its example.						
	b)	Differentiate between Static & Non Static functions.						
	c)	Discuss Abstract class with example.						
		OR						
8.	a)	What is the role of virtual function in C++?	4					
	b)	Why did Pure virtual function need?	5					
	c)	Explain pointer to object with example.						
9.	a)	What is file pointer? Explain file pointer functions as follows.  i) seekg() ii) seekp iii) tellg iv) tellp()	5					
	b)	How error can be handled during file operations?						
	c)	Write a program in C++ to read the contents of one file and copy it to another file.						
		OR						
10.	a)	What is the difference between opening a file using constructor function & opening a file using open function.						
	b)	Explain unformatted I/O operation & formatted I/O operation functions in detail.						
	c)	What are the various file opening mode?						
11.	a)	What is exception? Explain how it is handled in C++?.						
	b)	What is template? Explain function template with example Also state its advantages and disadvantages.						
		OR						
12.	a)	Discuss iterates & specialized iterates.	4					

Discuss iterates & specialized iterates. **12.** a)

Write a short note on any three. b)

**10** 

- Sequential containers. i)
- Associative containers. ii)
- iii) Multiple catch block.
- Standard Template Library. iv)
- User defined Exception.

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