Total No. of printed pages = 3	
CS 131303 NR	
Roll No. of candidate	Lister
22/2/22221	
B.Tech. 3rd Semester End-Term Examinat	ion
ECE / EEE & CSE	
Computer Science	

OBJECT ORIENTED PROGRAMMING IN C++

(New Regulation)

Full Marks - 70

Time - Three hours

The figures in the margin indicate full marks for the questions.

			Answer question No. 1	anc any	four from the rest.	
1.	Ans	wert	$(10 \times 1 = 10)$			
	(i)	Wh	ich is not a feature of OOP	I definitions?		
		(a)	Efficient Code	(b)	Code reusability	
		(c)	Modularity	(d)	Duplicate/Redundant data	
	(ii)	Wh	ich feature of OOP indicate	s code re	asability?	
		(a)	Abstraction	(b)	Polymorphism	
		(c)	Encapsulation	(d)	Inheritance	
	(iii)	Wh	ich among the following do	e under OOP concept?		
		(a)	Data hiding	(b)	Message passing	
	,	(0)	Platform independent	(d)	Data binding	
	(iv) Compile time polymorphism in C++ language are					
		(a)	Operator overloading	(b)	Function overloading	
		(c)	Function overriding	(d)	(a) and (b) Only	

	(v)	0++	abstract class can contain		
		(a)	Pure virtual function		
		(b)	Non-virtual function		
		(c)	Only pure virtual function		
		(d)	Both pure virtual and non-	virtual	function
	(vi)	Fa	Ise statements about function	n overl	pading is
		(a)	Defining multiple function function overloading	ns with	n same name n a class is called
		(b)	Overloaded function must	differ in	their order and types of arguments.
		(c)	Overloaded functions shou	ld be pre	eceded with virtual keyword
		(d)	No statement is false		
	(vii	Tru	e statement about Class and	structu	ire in C++ is
		(8)	Default access specifier is I	orivate i	n class and public in structure
		(b)	Way of creating objects of o	lass an	d structure are different
		(c)	Way of inheriting class and	structi	are are different
		(d)	None		
	(vii	i) Wh	ich is Abstract Data Type in	C++	SHA CALL THE SALE OF THE SALE
		<u>(a)</u>	Class	(b)	Int
		(c)	Float	(d)	Array
	(ix)	Wh	ich operator is used to alloca	te an ob	oject dynamically of a class in C++?
		(a)	Scope resolution operator	(b)	Conditional operator
		(c)	New operator	(d)	Membership access
	(x)		en you create an object of a ed automatically?	class A	A like A obj ; then which one will be
		(a)	Constructor	(b)	Destructor
		(e)	Copy constructor	(d)	Assignment operator
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(a) What do you mean by constructor and destructor? Show their uses with 2: (4 + 3)example. (b) Write a program to overload the '+' operator to carry out the addition of two complex numbers. (a) Can we access private data members of a class without using a member or a 3. friend function? Explain with example. (7) What do you mean by static member of a class? Explain the features of static data member. (3 + 5)What is virtual function? Why do we need virtual function? 4. (3 + 4)What is file handling in C++? What are different modes available while (3 + 5)opening a file. Explain different types of inheritance with examples. (7) 5. (a) Write a program to add members of two different classes using friend (b) (8) function. Write difference between static binding and late binding. (7)6. (a) What do you mean by pure virtual function? Write a program to implement (b) BUTA CHOWDINGRY CENTRAL LIBRARY pure virtual function. Write short notes on : 7. Functional programming

Object oriented programming.

with example.

(7)

(8)

What is class template? How it is differ from function template? Explain