			BT-4/M-20 34092					
		OB.	JECT ORIENTED PROGRAMMING					
CSE-202N								
		- T-1						
	Tim	ne : Th	ree Hours] [Maximum Marks : 75					
	Not	te: A	Attempt Five questions in all, selecting at least one	,				
	question from each Unit.							
			Unit I					
	1.	(a)	Describe the following characteristics of object					
	1.	(a)	· ·					
			oriented programming:					
			(i) Polymorphism					
			(ii) Data abstraction					
			(iii) Data encapsulation. 9)				
		(b)	What is a Class? How is it created? Explain using					
			suitable example. 6					
	2.	(a)	Differentiate between public private and protected					
	4.	(a)	Differentiate between public, private and protected					
			access specifiers.					
		(b)	Define an enumerated data type in C++ with suitable	:				
			example. 4					
		(c)	State the difference between class and structure.					
			Explain with an example. 5	,				
	(3)I	_3409	2 1					

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Unit II

3.	(a)	Explain the difference between inline function and
		friend function with the help of an example. 8
	(b)	Differentiate between Default Constructor and
		constructor with Default argument. 7
4.	(a)	Explain New operator with example. 3
	(b)	What does inheritance mean in C++? What are
		different forms of inheritance ? Give an example of
		each. 12
		Unit III
5.	(a)	Explain static and dynamic binding with suitable example.
	(b)	Write a C++ program demonstrating use of the
		virtual function with the use of base and derived
		classes. 10
6.	(a)	What is operator overloading? What are the methods of overloading the operators in C++?
		Explain binary operator overloading in C++ with
	<i>a</i> >	example. 12
	(b)	What is significance of Virtual Destructor? 3

Unit IV

What are the different types of file opening modes?

		Explain file attributes.	7
	(b)	What are class templates ? How are they created	d ?
		What is the need for class templates? Explain w	vith
		suitable example.	8
8.	(a)	What is an exception ? List the principles exception handling. Explain exception handl	
		mechanism of C++ with suitable example.	12
	(b)	Explain stream manipulators.	3

7. (a)