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**BT-3/ D-21: 43160**

**PC-IT-207A : Object Oriented Programming using C++**

**Time: 3 Hours]**

**[Max. Marks: 75**

	<b>Note:</b> Attempt any five questions out of eight questions selecting atleast one from each unit	Marks allotted
	UNIT-1	
1	(a) What is use of namespace and object in OOPS (b) What do you mean by Constructor and Destructor in C++. Explain Copy Constructor and Parametrized Constructor with the help of example.	4 11
11	(a) What is Dynamic Memory location with new and delete keywords. (b) What is encapsulation and Friend Class and its uses. Write a program to access Data members using an example.	5 10
	UNIT-2	
111	What is operator overloading. Explain the >>, << operator with the Help of example.	15
IV	What is inheritance and write a program to find area of cube if base Class is triangle with the help of private and protected inheritance.	15
	UNIT-3	
V	(a) What do you mean by virtual function and pure virtual function. (b) What is polymorphism and explain different types of polymorphism with the help of example.	5 10
VI	What do you mean by file handling. Write a program to read data From a file and write it into another file in sequence manner.	15
	UNIT-4	
VII	What is Function template and write a program to overload function template and explain it in brief.	15
VIII	What is Exception handling. Write a program to handle divide by zero and array bound Exception.	15