GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER– IV (Old) EXAMINATION – WINTER 2019

Subject Code: 140705   Date: 17/12/2019

Subject Name: Object Oriented Programming with C++

Time: 10:30 AM TO 01:00 PM   Total Marks: 70

Instructions:
1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

Q.1	**(a)**	Difference between object oriented programming and procedure oriented programming in Detail.	07
	(b)	Describe, with examples, the uses of enumeration data types.	07
Q.2	**(a)**	Explain type conversion from basic type to class type and class type to basic type with example.	07
	(b)	What do you mean by function overloading? Explain it with example.	07
		OR	
	(b)	Explain the inline function and default arguments with example.	07
Q.3	**(a)**	Describe various operators in C++.	07
	(b)	Explain static data member and static member function with suitable example	07
		OR	
Q.3	**(a)**	What is default constructor? What is the purpose of parameterized constructor? Explain it with example.	07
	(b)	What is an operator function? Write a program to overload binary + operator as a member function.	07
Q.4	**(a)**	Write a C++ program for bubble sort using template functions.	07
	(b)	Discuss friend function and friend class in detail.	07
		OR	
Q.4	**(a)**	Write a program which uses command line arguments to display the contents of a file.	07
	(b)	What is Inheritance? Explain different types of Inheritance.	07
Q.5	**(a)**	Explain pointer to objects in C++. Write a program to demonstrate use of this pointer.	07
	(b)	Explain Virtual function and Pure Virtual Function with example.	07
		OR	
Q.5	**(a)**	Explain STL with its core components.	07
	(b)	What is a stream? Describe various stream classes for console I/O operations.	07

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