

## MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL

Paper Code: EC605B PROGRAMMING LANGUAGE UPID: 006038

Time Allotted: 3 Hours Full Marks:70

The Figures in the margin indicate full marks.

Candidate are required to give their answers in their own words as far as practicable

## **Group-A (Very Short Answer Type Question)**

		Group-A (very Snort Answer Type Question)	
1. Answer any ten of the following : [ 1 x 10			
	(1) /	What is Inheritance in C++?	
	(11)	How many template parameters are allowed in template classes?	
	(III)	What is a friend function in C++?	
	(IV) /	What is Constructor?	
	(V)	C++ is superset of which langauge?	
	(VI)	How many Access specifier are there in C++?	
	(AII) /	Which keyword is used to define the macros in c++?	
	(VIII) 1	Which is the correct syntax for printing the address of the first element?	
	(IX) /	Which constructors are provided by the C++ compiler if not defined in a class?	
	(x) /	Which of the operator cannot be overloaded?	
	(XI) /	Which is the correct syntax to print the message in C++ language?	
		What is output of below program?	
	1-10	nt main()	
		const int a=10;	
		14+;	
	1,000	cout< <a;< td=""><td></td></a;<>	
	139 A	eturn 0;	
	132		
Group-B (Short Answer Type Question)			
		Answer any three of the following:	[ 5 x 3 = 15 ]
2.	Explai	n about data types in C++.	[5]
3.	Comp	pare return by value and return by reference in C++ .	[5]
4.	Discus	ss inheritance as applied to OOP?	[5]
5.	What is the need of overloading operators and functions?		[5]
6.	How o	lo we declare a member of a static class, explain with a program ?	[5]
		Group-C (Long Answer Type Question)	
		Answer any three of the following:	[ 15 x 3 = 45 ]
7.	(a) Di	scuss default constructor and parameterized constructor with the help of an example in C++.	[8]
	(b) D	escribe the following terms with respect to C++ with proper examples.	[7]
	1)	new operator 2) destructor.	
8.	(a) W	rite a program to show the parameter passing.	[7]
	(b) Ex	plain Call by value and call by reference with programmatic example.	[8]
9.	(a) W	hat is a constructor? Is it mandatory to use constructors in a class?	[5]
	(b) Co	ompare parameterized constructor and copy constructor.	[5]
	(c) De	escribe the importance of destructors.	[5]
10.	(a) W	rite a short note on UML.	[5]
	(b) Ex	plain different qualities of software system.	[5]
	(c) W	rite a short note on process life cycle with proper diagram.	[5]
11.	(a) Di	scuss the role of access specifiers in inheritance.	[5]

- (b) Show visibility of access specifiers.
- (c) When access specifiers are inherited as public, private and protected.

\*\*\* END OF PAPER \*\*\*

[5]

[5]