F-7/2051

5882/MJ

Name of the Examination			**BSc (CSM) 2nd Sem**		
Year of Examination			**May, 2018**		
Subject			**Object Oriented Programming using C++**		
Paper			**CSM-126**		
Title			**Object Oriented Programming using C++**		
Time Allowed	**3 Hours**	**Maximum Marks**	**30**	**Min. Pass Marks**	**11**

Note: Candidates are required to attempt five questions in all, selecting two questions each from Section A and Section B and compulsory question of Section C.

Section A			
1.		Define and distinguish between functional and object oriented programming. Which approach is better for programming? Justify your answer.	4
2.		Define and distinguish between the following: a. Arrays and pointers b. Structures and union c. Parameter passing by address d. parameter passing by reference	4
3.		What are the different methods of parameter passing in C++? Explain giving examples.	4
4.		Define type casting. Discuss in detail the various type casting operators available in C++.	4
Section B			
5.		Define static data members and static member functions? How these are used? Explain giving examples of each.	4
6.		Define constructor and destructor. What are the rules for constructors and destructors? Explain.	4
7.		Define inheritance. What are the various types of inheritance? How ambiguity is resolved in different types of inheritances? Explain giving examples.	4
8.		Write a program in C++ to implement hybrid inheritance.	4
Section E			
9.		All questions are compulsory.	14
	a.	Define reference variable.	2
	b.	What is the difference between int *A[10] and int (*A)[10]?	2
	c.	Define function overloading.	2
	d.	Define constant argument.	2
	e.	Define constant function.	2
	f.	How an external function is made friend of a class?	2
	g.	What do you mean by nested classes?	2