D-8/2110



Name of the Examination			BSc (CSM) 1 st Sem			
Year of Examination			Dec, 2020			
Subject			Object Oriented Programming with C++			
Paper			CSM-117			
Title			Object Oriented Programming with C++			
Time Allowed	3 Hours	Maximum Marks	30	Min. Pass Marks	10.5	

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.

Sec	ction	Α			
1.		What are the features of object oriented programming? How is it better			
		than its predecessor programming paradigms? Explain.			
2.		Define and distinguish between the following:	4		
		a. Arrays and pointers b. Structures and union			
		c. Parameter passing by address and parameter passing by reference			
3.		Write a recursive function to generate n terms of Fibonacci series.	4		
4.	1	Define preprocessor. Discuss in detail any five preprocessor with the help	4		
		of suitable examples.			
Sec	ction	В	5		
5.		Define container class. How are these used? Give an example.	4		
6.		What are the different types of constructors? Explain the use of each type	4		
		of constructor giving examples.			
7.		How polymorphism with pointers is implemented? Explain.	4		
8.		Create a matrix class with a friend function for adding two matrices.	4		
Sa	ction				
9.		All questions are compulsory.	14		
	a.	Define reference variable.	2		
	b.	What are the multiple indirections?	2		
	с.	What are bit fields?	2		
	d.	Define constant function.	2		
	e.	What do you mean by nested classes?	2		
	f.	What is a pure virtual function?	2		
	g.	How operators are overloaded using friend function?	2		