

Roll No.
1000 -/6/25/20

January 2018

Master of Business Administration (MBA) Examination

(Full Time) (New) Third Semester

FT-3031 : OBJECT ORIENTED PROGRAMMING USING C++

[Max. Marks 80

Time 3 Hours]

Note : Attempt any five questions. All questions carry equal marks.

1. (a) Define the following by giving example :
(i) Class (ii) Objects (iii) Constructor (iv) Inheritance.
(b) Differentiate between object oriented programming and procedure oriented programming.
2. (a) Write a program in C++ to calculate factorial of a given no. using recursion.
(b) What are different types of control statement available in C++ ?
3. (a) Differentiate between call by value and call by reference by giving example of each.
(b) Write a program in C++ to calculate x where :
$$x = 1 + \frac{1}{2} + \frac{1}{3} + \frac{1}{4} \dots \frac{1}{n}$$
4. (a) What is function overloading and how it is different from function overriding.
(b) Explain the purpose of scope resolution (:) operator.
5. (a) What do you mean by procedure directives ? Explain why header files are required to be include in C++ program.
(b) What is abstract class ? Explain with example.
6. (a) Write a program to demonstrate the concept of polymorphism.
(b) What is exception handling ? Explain the purpose of 'try', 'catch' and 'throw' key used in exception handling.
7. Differentiate between union, structure and classes.
8. Write a program in C++ which shows implementation of reading, opening, writing data in a Text File.