

Roll No.

--	--	--	--	--	--	--	--	--	--	--	--

Total No. of Questions: 07

Total No. of Pages: 01

B.Sc. (IT)/BCA (Sem. 2)

OOPS USING C++

Subject Code: BSIT-203

Paper ID: B1115

Time: 03 Hrs.

Max. Marks: 60

INSTRUCTIONS TO CANDIDATES:

1. Section A is **COMPULSORY** consisting of **TEN** questions carrying **TWO** marks each.
2. Section B contains **SIX** questions carrying **TEN** marks each and students have to attempt any **FOUR** questions.

SECTION A

1. Define the following:
 - a) Class
 - b) Inheritance
 - c) Reusability
 - d) Polymorphism
 - e) Data Abstraction
 - f) Data hiding
 - g) Friend Classes
 - h) Pointers
 - i) Constructors
 - j) Header files

SECTION B

2. What are the various forms of IF statement? Discuss each of them with the help of flowchart and example.
3. What is Function? Name its different categories. Write a program to pass arguments to a function using
 - a) Passing by Address
 - b) Passing by Reference
4.
 - a) Differentiate between Private and Public member functions with the help of an example.
 - b) How does function overloading implement polymorphism? Explain it with example.
5. Differentiate between:
 - a) Base Class and Derived Class
 - b) Compiler and Run-Time Errors
6. What is a Friend Function? How is it used? Explain with an example.
7. What are various methods for opening a file in C++. Under what circumstances is each one of them preferred?