

Roll No.

Total No. of Pages : 02

Total No. of Questions : 07

B.Sc. (IT) (Sem.-3rd)
PROGRAMMING IN C++
Subject Code : BS-205
Paper ID : [B0411]

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTION 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 has to attempt any **FOUR** questions.

SECTION-A

1. Write briefly :

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- a. What is object oriented programming?
- b. What is the use of header files in a program?
- c. What is a void data type?
- d. What is the difference between a variable and a keyword?
- e. What is the use of continue statement?
- f. What is a class and an object?
- g. What is a friend function?
- h. What is the use of scope resolution operator?
- i. What is a random access file?
- j. What is an abstract class?

SECTION B

2. Explain different operators available in C++ with use of each.
3. What is a constructor? What are different types of constructors in C++? Explain constructor overloading with an example.
4. Discuss and explain object oriented design and modeling in detail.
5. Write a program to create a class named SHAPE. Use this class to create other classes for different shapes. Write members of the classes to calculate area and perimeter of the shapes.
6.
 - a) Write a short note on formatted input output in C++.
 - b) How is a file created in C++? Write and explain different operations that can be performed on files.
7.
 - a) Write a program to display all the prime numbers within a given range.
 - b) Write a program to search a given character in a particular string.