Paper - 2 Programming in C++

Time: 3 hours   Max. Marks: 80

SECTION - A

Answer All Questions. Each Question carries equal marks.   4 x 15=60

1) a) Explain about abstract data types in C++.
                    (Or)
   b) Explain about conditional and looping control structures in C++.

2) a) Define a class and object. Explain about class and object with syntax and give
      examples for each.
                    (Or)
   b) Explain types of constructors.

3) a) Explain multiple inheritance with example.
                    (Or)
   b) Explain about private, public and protected variables and virtual base class with
       examples.

4) a) Explain how polymorphism can be used in C++.
                    (Or)
   b) Explain about templates and exception handling.

SECTION-B

Answer any FOUR questions.   4X5=20

5) What are the basic concepts of object oriented programming.

6) Explain friend function and inline function with examples.

7) Explain about library functions and user defined functions.

8) Explain about virtual base class with example.

9) Explain the concept of operator overloading with example.

10) What is a pointer? Why we need pointers.

11) Explain about the data file operations in C++.

12) Explain the private, public and protected variables.