Code: 9F00202

OBJECT ORIENTED PROGRAMMING
(For 2009, 2010, 2011 & 2012 admitted batches only)

Time: 3 hours   Max. Marks: 60

Answer any FIVE questions
All questions carry equal marks
*****

1   (a)   What are the various paradigms for problem solving?
    (b)   Explain the fundamental characteristics of OOP.

2   (a)   Explain the structure of a C++ program.
    (b)   Write a brief notes on the following.
          (i) Pointers.   (ii) Arrays.   (iii) Strings.

3   (a)   Discuss about recursive functions.
    (b)   Explain C++ class and data abstraction.

4   (a)   What is meant by function overloading? Explain.
    (b)   Discuss about function templates and class templates.

5   (a)   Define inheritance. What are different forms of inheritance?
    (b)   What is a virtual base class? When do we make a class virtual?

6   (a)   Explain static and dynamic binding.
    (b)   Define base and derived classes. Explain access to the base class members.

7   Discuss about the class hierarchy, stream I/o, and file streams in C++.

8   Write short notes on the following:
    (a)   Benefits of exception handling.
    (b)   Catching an exception.
    (c)   Stack unwinding.
                                        *****