T-13/2113
OBJECT ORIENTED PROGRAMMING USING C++—214
Semester—III

Time Allowed: Three Hours] [Maximum Marks: 80

Note: Attempt five questions in all, selecting at least one question each from Sections A, B and C carrying 15 marks each. Section D is compulsory, carrying 2.5 marks each.

SECTION—A

1. Define Object Oriented Programming. Explain its characteristics. 15

2. What are the various control structures available in C++? Explain giving examples. 15

SECTION—B

3. Define the following:
   (a) Array 5×3=15
   (b) Structure
   (c) Union
   (d) Pointer
   (e) Class.
4. Discuss friend function and friend classes giving suitable examples. 15

SECTION—C

5. Define Inheritance. What are the various types of Inheritance? Explain giving examples. 15

6. Define the following:
   (a) Function overriding
   (b) Virtual function
   (c) Abstract base class. 3×5=15

SECTION—D

7. Attempt brief notes on the following:
   (a) What is the difference between operator precedence and associativity?
   (b) Define static storage class.
   (c) Define parameter passing by reference.
   (d) What is a 'this' pointer?
   (e) Define virtual destructor.
   (f) How ambiguity caused by multiple inheritance is handled?
   (g) Define pure virtual function.
   (h) Define random access files. 8×2.5=20