B.A./B.Sc. (General) 3rd Semester
(2124)
INFORMATION TECHNOLOGY
Paper-A Computer Programming Using C++

Time Allowed : Three Hours]   [Maximum Marks : 65

Note :— Attempt **ONE** question each from Sections A to D. Question No. 9 (Section-E) is compulsory. All questions carry equal marks.

SECTION—A

1. What do you mean by Object Oriented Programming ? Explain the difference between Object Oriented Programming and Procedure Oriented Programming.   13

2. What do you understand by friend function ? Write a program in C++ to illustrate the concept of friend function.   13

SECTION—B

3. What do you understand by multilevel inheritance ? Write a program in C++ to illustrate the concept of multilevel inheritance.   13

4. What is Constructor ? Explain different types of Constructors in C++.   13

SECTION—C

5. What do you mean by file ? Write a program in C++ to copy the contents of a file in another file. **13**

6. What do you mean by polymorphism ? Explain the types of polymorphism in C++. **13**

SECTION—D

7. Define stack. Write down the applications of stacks. **13**

8. What do you mean by array ? Explain different types of array in C++. **13**

SECTION—E

9. Write short notes on the following :

   (a) Linked List   3

   (b) Encapsulation   2

   (c) Function overloading   2

   (d) Pointer to object   2

   (e) Random file processing   2

   (f) Queue.   2