B.A./B.Sc. (General) 3rd Semester

(2122)

COMPUTER SCIENCE

Paper : CS06 Theory-B Object Oriented Programming
Using (C++)

Time Allowed : Three Hours]   [Maximum Marks : 30

Note :— Attempt **FIVE** questions in all, including Question
No. 9 (Section-E) which is compulsory and selecting
ONE question each from Sections A-D.

SECTION—A

1. (a) Discuss various methods of passing the arguments to a function.

    (b) Define Inheritance. Describe this concept in object oriented
programming using suitable example.   3+3

2. What is array ? Differentiate between 1-D and 2-D array. Write
a program to print the following table :

Roll No.	Name	Subject	Marks	
1410	Raman	Physics	50	
1415	Aman	Chemistry	55	
1420	Kamal	Math	60	6

SECTION—B

3. (a) Discuss the purpose of a private member function in C++.

   (b) Discuss various properties of a static member function with suitable example. 3+3

4. Describe at least four types of member functions in C++ using suitable example. 6

SECTION—C

5. Differentiate between constructor and destructor in C++. 6

6. (a) Describe the role of multilevel inheritance in C++ with suitable example.

   (b) What do you mean by nesting ? How do you nest a class within another ? Describe. 3+3

SECTION—D

7. Differentiate between function overloading and operator overloading in C++. 6

8. Describe various characteristics of a virtual function. 6

SECTION—E

9. Explain the following keywords/functions/terms in C++ :

   (a) extern

   (b) ::

   (c) Data hiding

   (d) return

   (e) ofstream

   (f) bool. 6×1=6