

Exam.Code:0003

Sub. Code: 0292

2012

B.A./B.Sc. (General) Third Semester

Computer Science

CS-06: Object Oriented Programming (Using C++)

Time allowed: 3 Hours

Max. Marks: 30

NOTE: Attempt five questions in all, including Question No. 9 (Section - E) which is compulsory and selecting one question each from Section A- D.

x-x-x

Section - A

1. Describe the concept of Encapsulation in OOP. How it is useful in OOP?

(1×6=6)

2. What is array? How 2-D arrays are declared. Write a program in C++ to locate a given item in a 2D array.

(1×6=6)

Section - B

3. Describe the role of following in C++:

- a) Scope resolution operator.
- b) Friend Function.

(2×3=6)

4. Write suitable code in C++ to demonstrate the declaration of a member function inside as well as outside a class to print Name, Class and Marks.

(1×6=6)

Section - C

5. a) Discuss the concept of hybrid inheritance in C++ with suitable example.
b) Describe the role of parameterized and non parameterized constructors in C++.

(2×3=6)

P.T.O.

(2)

6. What do you mean by multilevel inheritance in C++? How it is achieved? Write suitable code in C++ to describe it.

(1×6=6)

Section - D

7. Describe the concept of a virtual function in C++ with suitable code. Also give its advantages.

(1×6=6)

8. Differentiate between operator and function overloading with suitable example.

(1×6=6)

Section – E

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

- | | | | |
|-------------------------|-------------------------------------|-------------------|-------------------|
| a) class | b) private | c) seekp() | d) fstream |
| e) pass by value | f) scope resolution operator | | |

(6×1=6)

X-X-X