

**Bachelor in Information Technology (BIT)**

**Term-End Examination**

**December, 2006**

**CSI-24 : OBJECT ORIENTED PROGRAMMING**

*Time : 2 Hours*

*Maximum Marks : 60*

**Note :** *There are two sections in this paper. All questions from Section A are **compulsory**. Answer any **two** questions from Section B.*

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**SECTION A**

1. State whether following statements are *true* or *false* : 5
  - (i) Private, protected, and public are the access specifiers in C++.
  - (ii) GOTO statement is not available in C++.
  - (iii) In C++, a structure by default has all its members public.
  - (iv) Overloading is a type of polymorphism.
  - (v) C++ supports multilevel inheritance.
  
2. Explain the following with the help of an example each : 5×3=15
  - (i) Class and Objects
  - (ii) Inheritance
  - (iii) Abstraction
  
3. (a) Write a program in C++ to display the size of int, char, and float data types. 5  
(b) What is a constructor ? Explain how constructor is defined in C++ with the help of an example. 5

**SECTION B**

*Answer any **two** questions from this section.*

4. Write a program in C++ for multiplication of two matrices. Write appropriate classes, member functions and member data. 15

5. (a) Write a program in C++ to swap two integers. 5
- (b) Write an interactive program in C++ to calculate the gross-salary and net-salary given the basic salary, DA, TA, perks, HRA and deductions. Mention the assumptions made, if any. 10
6. (a) Explain two advantages of object oriented programming, with example. 5
- (b) Write an interactive program in C++ to read two strings, concatenate them and find the length of the resultant string. 10