

00181

**Advanced Diploma in Information Technology
(ADIT) / Bachelor in Information Technology
(BIT)**

Term-End Examination

December, 2011

**CST-102 : COMPUTING : AN OBJECT ORIENTED
APPROACH**

Time : 2 hours

Maximum Marks : 50

Note : There are two sections in this paper; Section-A is compulsory. Answer any two questions from section-B.

SECTION-A

1. Answer following true/false questions
(state where following statements are *True/False*) 1x5=5
- (a) C++ is a structured programming language.
 - (b) There is no concept of pointers in C++.
 - (c) Wrapping up of data and function into a single unit is known as encapsulation.
 - (d) In C++ a data in classes are public.
 - (e) New operator in C++ is used to allocate memory to an object of a class.

2. (a) Explain the followings with example in respect of C++. 3x3=9
- (i) Inline function
 - (ii) Public member
 - (iii) Virtual function
- (b) What is single Inheritance ? Explain advantage of single inheritance with the help of an example in C++. 6
3. What is function overloading in C++ ? Explain function overloading with the help of an example program. 6

SECTION-B

4. (a) Write a C++ program to create a Bank-Account class with, the facility of balance enquiry, cash withdrawal, and cash deposit. Make necessary assumptions where ever required. 8
- (b) What is a structure in C++ ? How it is different from a class ? 4
5. (a) What is constructor ? Explain need of construction overloading with the help of a suitable example. 8
- (b) Write a C++ program to find the number of vowels in a given sentence. 4
6. (a) Write a C++ program to find the sum of two matrices using suitable class and member functions. 8
- (b) Explain advantages of object oriented analysis in brief. 4
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