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CS-72

01042

## BACHELOR IN COMPUTER APPLICATIONS

Term-End Examination

June, 2011

### CS-72 : C++ AND OBJECT ORIENTED PROGRAMMING

Time : 2 hours

Maximum Marks : 60

*Note : Question number 1 is compulsory. Answer any three Questions from the rest.*

1. (a) Define a class ACCOUNT that includes 10  
following members :  
Data Members : Name of Depositor,  
Account no., Type of A/c, Balance  
Amount.  
Member functions : To assign initial values,  
deposit amount, withdraw after checking  
balance, To display name and balance.  
Write a program in C++ and test it for 10  
Customers.
- (b) Differentiate between : 10  
(i) Procedural Programming and Object  
Oriented Programming.  
(ii) Data Encapsulation and Inheritance.
- (c) Explain the utility of the friend function, 5  
using an appropriate example.

- (d) Explain the steps involved in drawing interaction diagram with the help of an example. 5
2. (a) What do you mean by exception Handling ? Write a C++ Program that throws an arithmetic exception whenever the Input number is less than zero. 6
- (b) What do you mean by Polymorphism ? Explain with an example. 4
3. (a) How do you use scope resolution operator for accessing global variables ? Also discuss its other uses. 5
- (b) What is a Virtual Base Class ? Explain with an example. 5
4. (a) What is an inline function ? Explain with an example and also discuss its limitations. 5
- (b) Define operator overloading. Explain its advantages. 5
5. Explain the following with examples : 2x5=10
- (a) Input and Output streams
- (b) Constructor and Destructor
- (c) Abstract classes
- (d) Preprocessor directives
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