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#### MIDTERM EXAMINATION

SPRING 2007

	CS304 - OBJEC	Time: 90min	
		(Session - 4)	
\$	StudentID/LoginID:		_
\$	Student Name:		_
(	Center Name/Code:		_
i	Exam Date:	Thursday, May 03, 2007	

Marks: 40

# Please read the following instructions carefully before attempting any of the questions:

- 1. Attempt all questions. Marks are written adjacent to each question.
- **2**. Do not ask any questions about the contents of this examination from anyone.
  - **a**. If you think that there is something wrong with any of the questions, attempt it to the best of your understanding.
  - **b**. If you believe that some essential piece of information is missing, make an appropriate assumption and use it to solve the problem.
  - **c**. Write all steps, missing steps may lead to deduction of marks.
  - **d.** All coding questions should be answered using the **C** ++ syntax.
  - 3. You are not allowed to use IDE (Dev-C++ or any) in your paper.
  - **4.** This paper is closed handouts.

\*\*WARNING: Please note that Virtual University takes serious note of unfair means. Anyone found involved in cheating will get an `F` grade in this course.

	For Teacher's use only													
Question	1	2	3	4	5	6	7	8	9	10	Total			
Marks	•	_					•							

# Question No: 1 (Marks: 1) - Please choose one

The main function of scope resolution operator (::) is,

- To define an object
- To define a data member
- ► To link the definition of an identifier to its declaration
- ► All of the given

### Question No: 2 (Marks: 1) - Please choose one

What is a class?

- ► A class is a section of computer memory containing objects.
- ► A class is a section of the hard disk reserved for object oriented programs
- ► A class is the part of an object that contains the variables.
- ► A class is a description of a kind of object.

#### Question No: 3 (Marks: 1) - Please choose one

Which of the following features of OOP is used to derive a class from another?

- **▶** Encapsulation
- **▶** Polymorphism
- ► Data hiding

**▶** Inheritance

#### Question No: 4 (Marks: 1) - Please choose one

Which of the following is an advantage of **OOP**?

- ► OOP makes it easy to re-use the code
- ► It provides an ability to create one user defined data type by extending the other
- ► It provides the facility of defining Abstract data types through which real world entities can be defined better
- ► All of the given options

## Question No: 5 (Marks: 1) - Please choose one

Objects having identical characteristics belong to

- ► Same class
- ► Two different classes
- ► Any number of different classes
- ► Objects can not have identical characteristics

#### Question No: 6 (Marks: 5)

Write any two advantage(s) of declaring a member function as const?

#### Question No: 7 (Marks: 10)

Write the code for Deep copy constructor for the given class.

class MidTerm

{

```
private:
char* papername;
int Totalmarks;

// Code for Deep copy constructor
};
```

#### Question No: 8 (Marks: 18)

Write a program which consists of a class named **Zakat** and consists of two data members **OwnerName** and **Totalamount**, the class should also consists of three constructors i.e. Default constructor, one argument constructor and two argument constructor.

The class should further consists of a member function named Cal\_zakat () which calculate the zakat.

It should be keep in mind that the zakat will be calculated only if the **Totalamount** is greater than or equal to 20,000.

In main, define three object of this class for respective constructors and also display the zakat for each object.

**Note:** The zakat will be calculated by the formula (**Totalamount \* 2.5**)/100;

#### Question No: 9 (Marks: 1) - Please choose one

At the most, how many instances of certain class can be created?

- **▶** 1
- **▶** 6
- **▶** 3
- ▶ none of these

#### Question No: 10 (Marks: 1) - Please choose one

```
class A
{
public:
    virtual void MyVirtualMethod() = 0;
};
```

```
class B : public A
{
public:
    void MyVirtualMethod()
    {
        //do something
    }
};
```

Considering the given code, which of the following statements is correct?

- ► Class B is a an abstract class
- ► Class A is a concrete class
- ▶ Object of class A can not be instantiated
- ► Class B is a child class of class A