

MIDTERM EXAMINATION Spring 2010
CS304- Object Oriented Programming
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Time: 60 min
M a r k s: 38

Q. No: 1

Suppose there is an object of type Person, which of the following can be considered as one of its attributes

- Name
- Age
- Work()
- Both Name and Age

Q. No: 2

What a derived class can add?

- New data members
- New member functions and New friend functions
- New constructors and destructor
- All of given

Q. No: 3

_____ is/are used to access information hidden within an object?

- Interface
- Private data members
- Private member functions
- Both public and private members

Q. No: 4 www.vchowk.com

this pointers are not accessible for static member functions. vuzs

- True
- False

Q. No: 5

A static member function cannot be declared.

- Static
- Implicit
- Explicit
- Virtual

Q. No: 6

C++ compiler does not allow to dynamically allocate memory for objects

- False
- True

Q. No: 7

Given the following class

```
class Base{  
int Age=33;  
}
```

How you can improve above class with respect to accessing the field Age?

- Define the variable Age as private
- Define the variable Age as protected
- Define the variable Age as private and create a get method that returns it and a set method that updates it
- Define the variable Age as protected and create a set method that returns it and a get method that updates it

Q. No: 8

Friend class and friend function can be used as an alternate to each other

- True
- False

Q. No: 9 www.vchawk.com

Which of the following operators always takes no argument if overloaded?

- /
- -
- +
- ++

Q. No: 10

Suppose that the Test class does not have an overloaded assignment operator. What happens when an assignment `a=b;` is given for two Test objects a and b?

- The automatic assignment operator is used
- The copy constructor is used
- Compiler error
- Run-time error

Q. No: 11

Assume a class C with objects obj1, obj2, and obj3. For the statement `obj3 = obj1 - obj2` to work correctly, if the overloaded - operator must

- take two arguments.
- return a value.
- create a named temporary object.
- take four arguments

Q. No: 12

Which operator can not be overloaded?

- The relation operator (>=)
- Assignment operator (=)
- Script operator ([])
- Conditional operator (? :)

Q. No: 13

We achieve independence of internal implementation from its external interface through-----

- Encapsulation
- Information Hiding
- Abstraction
- both encapsulation and information hiding

Q. No: 14

Which one of the following is not an object association?

- Simple Association
- Inheritance
- Aggregation
- Composition

Q. No: 15

We capture the object attributes and behavior in Object Oriented programming using-----

- Class
- Function
- Data Members
- Instances

Q. No: 16

The return type of a constructor is of -----

- Integer
- Character
- Double
- No type

Q. No: 17

Can we create an array of objects for a class having default constructor?. Justify your answer.

Q. No: 18

Friend functions increase 'Data vulnerability', what is your opinion ?

Q. No: 19

Explain two benefits of setter functions.

Q. No: 20

Consider the class given below what will be the values in variables x,y and z after creating object of this class,

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```
class ABC{
int x;
int y;
int z;
public:
ABC();
};
ABC::ABC():x(10),z(x),y(x)
{
...
}
```

Q. No: 21

Explain what type of copy the default assignment operator "=" does when applied to objects. (shallow copy or deep copy)

Q. No: 22

What is composition? Explain it with the help of an example.

Q. No: 23

How we can overload Stream Extraction and Insertion Operators in c++?Give example code for Complex Number Class.

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