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CS304 - Object Oriented Programming

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

What problem(s) may occur when we copy objects without using deep copy constructor?

- ►Dangling pointer
- ►Memory Leakage
- ► All of the given
- ► System crash

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

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

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

a'A static member function can be called, even when a class is not _____.

- ► Declared
- ► Define
- ► Instantiated
- ► Called

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

Identify which of the following overloaded operator function's declaration is appropriate for the given call?

Ratipnal_number_1 + 2.325

Where Rational_number_1 is an object of user defined class Rational_number.

- ► Rational_number operator+(Rational_number & obj);
- ► Rational_number operator+(double& obj); (Page 145)
- ► Rational_number operator+(Rational_number &obj, double& num);
- ► operator+(double& obj);

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

_____ provide the facility to access the data member.

- ► accesser function(Page 68)
- ► private function
- ► inline function
- ► None of the given

Question No: 6 (Marks: 1) - Please choose one

Constant objects cannot change their state,

- ► True (Page 105)
- ► False

Question No: 7 (Marks: 1) - Please choose one

The _____ relationship indicates that an object contains other objects.

- ► None of given (Page 53)
- ► 'has-a'
- ► 'is-a'
- ► 'be-

Question No: 8 (Marks: 1) - Please choose one

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

- ► Encapsulation
- ► Polymorphism
- ► Data hiding
- ► Inheritance (Page 25)

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

_____ is a relationship

- ► Inheritance (Page 25)
- ► Polymarphism
- ► abstraction
- ► encapsulation

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

_____ satisfy the condition of polymorphism

- ► Carbon
- ► Diamond
- ► Coal
- ► all of the given (Page 56)

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Question No: 11 (Marks: 1) - Please choose one
A generalization-specialization relation between classes are implemented using

- data hiding
- friend classes
- encapsulation
- inheritance (Page 49)

Question No: 12 (Marks: 1) - Please choose one
The >= operator can be overloaded.

- True (Page 140)
- False

Question No: 13 (Marks: 1) - Please choose one
In order to free the memory occupied by the object, we use ----------

- Constructor
- Destructor (Page 92)
- Shallow Copy
- Deep Copy

Question No: 14 (Marks: 1) - Please choose one
Which of the following is not an example of multiple inheritances?----------

- Mermaid
- Woman (Lecture No.5)
- None of the given
- Amphibious Vehicle

Question No: 15 (Marks: 1) - Please choose one
Static variable can be initialized more than once.

- True
- False

Question No: 16 (Marks: 1) - Please choose one
A generic class showing all the common attributes and a behavior of other classes represents a very important feature in oop called --------

- Inheritance (Page 26)
- Encapsulation
- Polymarphism
- Abstraction

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Question No: 17 (Marks: 2)

Which type of copy is used by the default assignment operator "=" when applied to objects. Also describe the reason.

Question No: 18 (Marks: 2)

Consider the following code segment:

```
class User {
char * name;
const int id;
public:
User(){
Id=123;   // It gives an error
}
};
```

So how we can assign a value to constant id?

Question No: 19 (Marks: 3)

Give c++ code to overload assignment operator for string class.

Question No: 20 (Marks: 3)

Consider the code given below explain what kind of association exists between class A and class B. Justify your answer as well.

```
class A{

private:
int a,b,c;

public:
....
};
class B{

private:
int d,e,f;
A obj1;
public:
....
};
```

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Question No: 21 (Marks: 5)

How we can use the concept of overloading to convert a type according to our own requirements? Give one example.

Question No: 22 (Marks: 5)

Consider the following scenario,

In a University a Course consists of 45 Lectures, 6 Assignments, 1 Quiz and 1 GMDB, similarly each Lecture has corresponding 1 general MDB; you have to model this scenario as an **Object Model** clearly showing type of associations (**simple association, composition or aggregation**) between these Objects.

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