



Virtual University

**CS-304 Object Oriented Programming
Update MCQS For Mid Term
Solve By Vu Topper RM**



80 To 100% Marks



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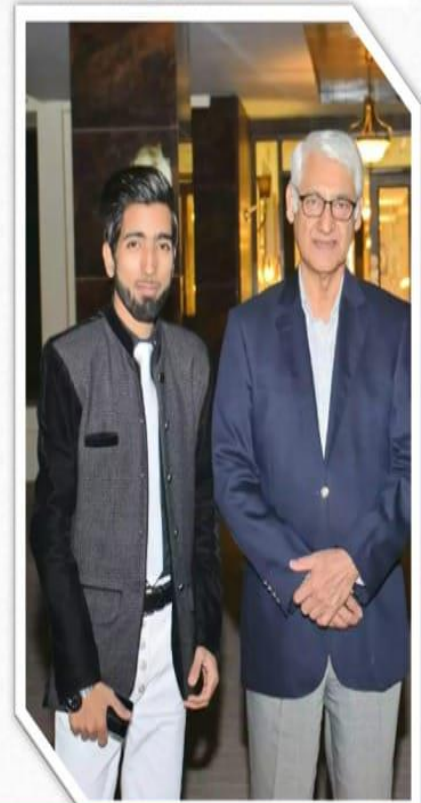
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Question No:1

(Marks:1)

Vu-Topper RM

Which of the following best describes relationship between Book and BookChapter classes?

- A. Association
- B. Inheritance
- C. Aggregation
- D. Composition**

Question No:2

(Marks:1)

Vu-Topper RM

The keyword "friend" should be placed in _____ :

- A. Main Function
- B. Function Definition
- C. Anywhere in program
- D. Function Declaration**

Google

Question No:3

(Marks:1)

Vu-Topper RM

Which of the following stores the address of a variable?

- A. Pointer**
- B. Function
- C. Destructor
- D. Constructor

Question No:4

(Marks:1)

Vu-Topper RM

_____ is creating objects of one class inside another class.

- A. Association
- B. Inheritance
- C. Aggregation
- D. Composition**

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Question No:5

(Marks:1)

Vu-Topper RM

Which of the following can be used as an alternative to static members?

- A. Local Variables
- B. Array of Objects
- C. Global Variables**
- D. Constant Variables

Question No:6

(Marks:1)

Vu-Topper RM

What is the general syntax of overloading Unary Operator as member function of the class?

- A. TYPE & operator OP ();**
- B. TYPE & operator OP (int);
- C. TYPE & operator OP (TYPE &);
- D. TYPE & operator OP (TYPE &, TYPE &);

Question No:7

(Marks:1)

Vu-Topper RM

Which of the following operators operate on one operand?

- A. Unary Operators**
- B. Ternary Operator
- C. Binary Operators
- D. All of the given options

Question No:8

(Marks:1)

Vu-Topper RM

Composition is _____ and aggregation is _____ relationship.

- A. Weak, Weak
- B. Weak, Strong
- C. Strong, Weak**
- D. Strong, Strong

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Question No:9

(Marks:1)

Vu-Topper RM

Which of the following function declaration is correct to overload the + operator as member function in Complex class?

- A. Complex +(const Complex & rhs);
- B. operator + Complex (const Complex & rhs);
- C. Complex operator +(const Complex & rhs);**
- D. Complex operator + ::(const Complex & rhs);

Question No:10

(Marks:1)

Vu-Topper RM

Insertion operator is _____ associative.

- A. Left to Left
- B. Right to Left
- C. Left to Right**
- D. Right to Right

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Question No:11

(Marks:1)

Vu-Topper RM

Which of the following statement is TRUE about a class's Static Member Function?

- A. It can access non-static data members.
- B. It is used to access static data members only.**
- C. It can only be called by a particular object of class.
- D. It can access constant data members of the class.

Question No:12

(Marks:1)

Vu-Topper RM

Which of the following is the correct way of declaring a constant variable named RollNo?

- A. const RollNo;
- B. int const rollNo;
- C. int RollNo const;
- D. const int RollNo;**

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Question No:13

(Marks:1)

Vu-Topper RM

Which of the following is defined as stream extraction operator in C++?

- A. *<
- B. <<
- C. *>
- D. >>

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Question No:14

(Marks:1)

Vu-Topper RM

What will be the output of the following code?

```
#include<iostream>
using namespace std;
int main()
{
int const x = 10;cout << ++x;}

```

- A. 10**
- B. Run Time Error
- C. 11
- D. Compile time Error

Question No:15

(Marks:1)

Vu-Topper RM

In C++, the subscript operator [] must be overloaded as a _____ of the class, with one parameter of _____ type.

- A. Member function, int**
- B. Member function, char
- C. Non-member function, int
- D. Non-member function, char

Google

Question No:16

(Marks:1)

Vu-Topper RM

We can get the address of a variable stored in a pointer using

- _____:
- A. :symbol
 - B. :: symbol

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C. ->symbol

D. & symbol

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Question No:17

(Marks:1)

Vu-Topper RM

Suppose "int a;" is a static data member of a class named test. Which of the following is the correct way of initializing the static variable outside the class test?

A. test a = 0;

B. int test::a = 0;

C. int test->a = 0;

Question No:18

(Marks:1)

Vu-Topper RM

_____ Operator is used to create objects at run time.

A. New **Page 118**

B. Create

C. Dynamic

D. Subscript

Question No:19

(Marks:1)

Vu-Topper RM

Which of the following statement is NOT true about static variable of a class?

A. They are created even when there is no object of a class.

B. Static variable belongs to a particular instance of a class.

C. Static variable is initialized once only throughout the program.

D. They remain in memory even when all Objects of a class are destroyed.

Question No:20

(Marks:1)

Vu-Topper RM

Static Data Members can be accessed through _____.

A. Semi colon

B. Dot operator

C. Scope resolution operator

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D. Dot operator and scope resolution operator

Question No:21

(Marks:1)

Vu-Topper RM

Suppose we have a class named "Student"; which of the following statement is correctly declaring the pointer to the object for "Student" class?

- A. Student obj;
- B. Student &obj;
- C. Student *obj;**
- D. *Student obj;

Question No:22

(Marks:1)

Vu-Topper RM

Which of the following is the correct syntax of declaring static variable "count" of type int?

- A. int static count;
- B. int count static;
- C. static count int;
- D. static int count;**

Question No:23

(Marks:1)

Vu-Topper RM

In composition _____ are called from composing objects to composed objects.

- A. Pointers
- B. Destructors**
- C. Constructors
- D. Member Functions

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Question No:24

(Marks:1)

Vu-Topper RM

In C++, Composition is a relationship between _____ and _____ objects.

- A. Whole, part
- B. Parent, child**

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- C. Base, derived
- D. All given options are correct.

Question No:25

(Marks:1)

Vu-Topper RM

In which of the following OOP paradigm objects cannot exist independently?

- A. Aggregation
- B. Inheritance
- C. Composition

D. Polymorphism

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Question No:26

(Marks:1)

Vu-Topper RM

_____ remain in memory even when all objects of a class have been destroyed.

- A. Primitive Variables
- B. Static Data Members**
- C. Constant Data Members
- D. Instance Data Members

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Question No:27

(Marks:1)

Vu-Topper RM

We can access a private static data member of a class through _____.

- A. Static data member**
- B. Global data member
- C. Static member function
- D. Global member function

Google

Question No:28

(Marks:1)

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Copy constructor is called when:

- A. An object is deleted.
- B. An object is created.
- C. An array of objects is created.

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D. An object is created in term of pre existing object.

Question No:29

(Marks:1)

Vu-Topper RM

In expression $b = c / d$, the arity of division (/) operator is _____:

- A. 1
- B. 4
- C. 2**
- D. 3

Question No:30

(Marks:1)

Vu-Topper RM

If you do not initialize static data member of a class of int type, it is automatically initialized with _____.

- A. 0**
- B. 1
- C. Null
- D. -32767

Question No:31

(Marks:1)

Vu-Topper RM

In composition _____ are called from composed objects to composing objects.

- A. Pointers
- B. Variables
- C. Destructors

D. Constructors

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Question No:32

(Marks:1)

Vu-Topper RM

In C++, which of the following is defined as stream insertion operator?

- A. *<
- B. <<**
- C. *>
- D. >>

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Question No:33

(Marks:1)

Vu-Topper RM

Which of the following is an example of unary operator?

- A. Division Operator (/)
- B. Equality Operator (==)
- C. Inequality Operator (!=)
- D. Increment Operator (++)**

Question No:34

(Marks:1)

Vu-Topper RM

Which of the following issue(s) can be caused by the use of friend functions?

- A. All of the given**
- B. Tough debugging
- C. Data vulnerability
- D. Programming bugs

Question No:35

(Marks:1)

Vu-Topper RM

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

Rational_number_1 + 2.325

Where Rational_number_1

is an object of user defined class Rational_number.

- A. operator+(double& obj);
- B. None of the given choices
- C. Rational_number operator+(Rational_number & obj);**
- D. Rational_number operator+(Rational_number &obj, double& num);

Question No:36

(Marks:1)

Vu-Topper RM

In C++, which of the following operator can only be overloaded as a member function of the class?

- A. Equality Operator: ==
- B. Function Operator: ()

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C. Inequality Operator: !=

D. Stream Extraction Operator: >>

Question No:37 (Marks:1) **Vu-Topper RM**

In _____, Base class can't always be replaced by the derived class.

Specialization

Question No:38 (Marks:1) **Vu-Topper RM**

A class can have only _____ destructor(s).

One

Question No:39 (Marks:1) **Vu-Topper RM**

Which of the following keyword tells the compiler to substitute the code within the function definition for every instance of a function call?

Inline

Question No:40 (Marks:1) **Vu-Topper RM**

In OOP, we can achieve reusability through _____.

Inheritance

Question No:41 (Marks:1) **Vu-Topper RM**

Through interface we represent object's _____.

Behaviour

Question No:42 (Marks:1) **Vu-Topper RM**

How many objects of a given class may be constructed in an application?

As many as the application asks for

Question No:43 (Marks:1) **Vu-Topper RM**

The process of extracting common characteristics from two or more classes and combining them into a superclass is called _____.

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Generalization

Question No:44 (Marks:1) **Vu-Topper RM**
“Student registers Course and Teacher teaches the Course.” is an example of _____.

Binary Association

Question No:45 (Marks:1) **Vu-Topper RM**
Which of the following concept is more close to encapsulation?

Information Hiding

Question No:46 (Marks:1) **Vu-Topper RM**
Aggregation between objects shows that _____

Objects have weak relationship

Question No:47 (Marks:1) **Vu-Topper RM**
Identify the abstract class from the given statement: "Vehicle class is base class. Bus, Car, and Truck are derived classes."

Vehicle

Question No:48 (Marks:1) **Vu-Topper RM**
An instance of user defined type is called _____.

Object

Question No:49 (Marks:1) **Vu-Topper RM**
Enclosing all the characteristics of an object within the object itself is described as _____.

Encapsulation

Question No:50 (Marks:1) **Vu-Topper RM**
Which of the following is a strong relationship?

Inheritance

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Question No:51 (Marks:1) **Vu-Topper RM**
Composition is a strong relationship because

_____.
compose object cannot exist independently

Question No:52 (Marks:1) **Vu-Topper RM**
Which of the following is NOT an access specifier in C++?

Hidden

Question No:53 (Marks:1) **Vu-Topper RM**
How can we identify classes from a given problem statement?

By extracting Nouns from problem statement

Question No:54 (Marks:1) **Vu-Topper RM**
If class B inherits from class A then it contains all characteristics of

_____.
Class A

Question No:55 (Marks:1) **Vu-Topper RM**
Which of the following represents the two-way association?

Employee works for the company.

Question No:56 (Marks:1) **Vu-Topper RM**
Constructor without any parameter is called _____.

Default constructor

Question No:57 (Marks:1) **Vu-Topper RM**
All objects of same class has _____ attributes.

Same

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Question No:58

(Marks:1)

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Mermaid is an example of _____.

Single inheritance

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