

Professional Online Academy Vu Topper RM



CS304-Object Oriented Programming Update MCQ'S Mid Term



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Question No:1

(Marks:1)

Vu-Topper RM

Copy constructor is NOT called when _____.

- A. Initializing an object at the time of creation
- B. Creating an object with state of a pre-existing object
- C. Passing an object by value to a function
- D. Passing an object by reference to a function**

Question No:2

(Marks:1)

Vu-Topper RM

If class B inherits from class A, which of the following is child class?

- A. Class B**
- B. Both Class A & Class B
- C. No child class
- D. Class A

Question No:3

(Marks:1)

Vu-Topper RM

Data member of a class "Student" CANNOT be _____.

- A. char *name;
- B. char name;**
- C. float CGPA;
- D. int rollNo;

Question No:4

(Marks:1)

Vu-Topper RM

What problem can occur if only a shallow copy is used with dynamic memory?

- A. Syntax warning
- B. Too much memory usage
- C. Memory leak and dangling pointer**
- D. Compilation error

Question No:5

(Marks:1)

Vu-Topper RM

Why should we write our own assignment operator when dynamic memory is involved?

- A. Compiler performs shallow copy**

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- B. Deep copy causes errors
- C. Overloading is mandatory
- D. Assignment operator is not generated by compiler automatically

Question No:6

(Marks:1)

Vu-Topper RM

The purpose of a member initialization list in a constructor is to

- A. define functions
- B. declare variables
- C. overload functions

D. initialize member objects before constructor body executes

Question No:7

(Marks:1)

Vu-Topper RM

Consider the following code and choose the correct order of initialization for the data members of the class.

```
class A {int a,b,c; public: A(): b(10), c(0), a(7){}};
```

- A. a,c,b**
- B. b,a,c
- C. a,b,c
- D. c,a,b

Question No:8

(Marks:1)

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What is the arity of a binary operator +?

- A. 0
- B. 1
- C. Unlimited

D. 2

Question No:9

(Marks:1)

Vu-Topper RM

What is the main purpose of operator overloading?

- A. To replace all functions in a class
- B. To add new operators to C++
- C. To allow operators to work with user-defined types**

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D. To increase memory usage

Question No:10

(Marks:1)

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Which of these violates encapsulation in object-oriented programming?

A. Virtual functions

B. Destructors

C. Constructors

D. Friend functions

Question No:11

(Marks:1)

Vu-Topper RM

In the expression $c1 + c2$, how is the overloaded operator $+$ called?

A. operator+(c1,c2)

B. $\text{Complex}::\text{operator}+(c1, c2)$

C. $c1.\text{operator}+(c2)$

D. $c2.\text{operator}+(c1)$

Question No:12

(Marks:1)

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What does `return *this;` do in an overloaded assignment operator?

A. Terminates the function

B. Returns a pointer

C. Returns a temporary object

D. Returns a reference to the current object

Question No:13

(Marks:1)

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Which keyword is used in the function header to define an overloaded operator?

A. overload

B. operator

C. function

D. new

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Question No:14

(Marks:1)

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Suppose we have a class named "Test" and void show() is one of its public member function. Which of the following is a correct way to call show() function using Test pointer ptr?

- A. ptr->show();**
- B. ptr.show();
- C. ptr:show();
- D. ptr::show();

Question No:15

(Marks:1)

Vu-Topper RM

Which of the following operator can be overloaded in C++?

- A. ::
- B. ?:
- C. sizeof
- D. new**

Question No:16

(Marks:1)

Vu-Topper RM

What is the benefit of friend classes?

- A. Public inheritance
- B. Abstract base creation
- C. One class can access another class's private members**
- D. Automatic initialization

Question No:17

(Marks:1)

Vu-Topper RM

The key characteristic of aggregation is _____

- A. Strong ownership
- B. Shared memory
- C. Tight coupling
- D. Independent object life cycles**

Question No:18

(Marks:1)

Vu-Topper RM

What is the main reason the operator+ should return an object rather than void?

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- A. To avoid compiler warnings
- B. To allow chained operations**
- C. To use less memory
- D. To prevent syntax errors

Question No:19 (Marks:1) **Vu-Topper RM**

In the overloaded assignment operator, why is delete used?

- A. To reduce size
- B. To copy values
- C. To avoid memory leaks**
- D. To initialize memory

Question No:20 (Marks:1) **Vu-Topper RM**

Which operator is right-associative in C++?

- A. *
- B. -
- C. =**
- D. +

Question No:21 (Marks:1) **Vu-Topper RM**

What return type causes issues in chained assignments like str1 = str2 = str3?

- A. bool
- B. void**
- C. int
- D. String

Question No:22 (Marks:1) **Vu-Topper RM**

cout is an object of _____ class.

- A. fstream
- B. ostream**
- C. istream

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D. instream

Question No:23

(Marks:1)

Vu-Topper RM

Which of the following is NOT True about Accessor Functions?

- A. It can be used to get private data members of the class.
- B. It can be used to set private data members of the class.**
- C. They are used to access private data of the object.
- D. They are used to access only public data of the object

Question No:24

(Marks:1)

Vu-Topper RM

Identify the common attributes of the given scenario:

Circle has color, vertices, and radius.

Triangle has color, vertices, and angle.

- A. Vertices, Radius
- B. Vertices, Radius
- C. Color, Vertices**
- D. Color, Angle

Question No:25

(Marks:1)

Vu-Topper RM

Which of the following notation represents the given statement?

“Ali can drive more than one car.”

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

Question No:26

(Marks:1)

Vu-Topper RM

Generalization is _____ approach.

A. Bottom-up

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- B. Top-bottom
- C. Right-Left
- D. Left-Right

Question No:27 (Marks:1) **Vu-Topper RM**

In which of the following, different forms of a single entity exist?

- A. Aggregation
- B. Composition
- C. Polymorphism**
- D. Encapsulation

Question No:28 (Marks:1) **Vu-Topper RM**

Which of the following statements shows the inheritance relationship?

- A. Doctor may be a person.
- B. Doctor can be a person.
- C. Doctor is a person.**
- D. Doctor has a person.

Question No:29 (Marks:1) **Vu-Topper RM**

Which of the following is not true about constant member function?

- A. Constant member function can change data member of a class.
- B. Constant member functions can modify the state of any object.
- C. All of the given options**
- D. We can call non-constant functions in constant member function.

Question No:30 (Marks:1) **Vu-Topper RM**

The _____ tells the compiler what task the function will be performing.

- A. Function definition

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B. Function Header

- C. Function declaration
- D. Function calling

Question No:31

(Marks:1)

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When no access specifier is mentioned in class, then default access specifier is _____.

- A. private**
- B. public
- C. protected
- D. default

Question No:32

(Marks:1)

Vu-Topper RM

If class B inherits from class A, which of the following is parent class?

- A. Both Class A & Class B
- B. Class A**
- C. Class B
- D. No parent class

Question No:33

(Marks:1)

Vu-Topper RM

_____ is represented by a line with a filled diamond head.

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

Question No:34

(Marks:1)

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A/An _____ class implements the abstract concept.

- A. Friend Class

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B. Abstract Class

C. Concrete Class

Question No:35

(Marks:1)

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An object has attributes, operations and _____.

A. View

B. Unique Identity

C. Controller

D. Model

Question No:36

(Marks:1)

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Which relationship exists between Cat and Animal class?

A. Abstraction

B. Association

C. Inheritance

D. Aggregation

Question No:37

(Marks:1)

Vu-Topper RM

Minimum classes required in a program for implementing multiple inheritance:

A. 5

B. 4

C. 3

D. 2

Question No:38

(Marks:1)

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Specialization means that derived class is behaviorally _____ with the base class.

A. Compatible

B. Same

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- C. Incompatible
- D. Complex

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

In constant member function the type of this pointer is _____.

- A. Constant pointer
- B. Constant pointer to object**
- C. Constant pointer to class
- D. Constant pointer to constant data

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

The compiler treats the member function of a class as _____.

- A. Recursive function
- B. Inline function**
- C. Friend function
- D. Static function

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

Which of the following defines default constructor for class "Student"?

- A. Student() {//...
}**
- B. Student_Constructor() {//...
}
- C. Default() {//...
}
- D. Constructor() {//...
}

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

Inheritance is a way to _____.

- A. improve data-hiding and encapsulation.
- B. add features to existing classes without rewriting them**
- C. organize data

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D. clean data

Question No:43

(Marks:1)

Vu-Topper RM

Normal Form of class representation includes _____.

A. Class Name only

B. Class Name, Attributes, Operation

C. Class Name, Operations

D. Class Name, Objects, Operations

Question No:44

(Marks:1)

Vu-Topper RM

What will be the value of variables a,b, and c after instantiating an object of the given class? class test {int a; int b; int c;public:test():b(5),c(a),a(b) {} };

A. 5, 5, 5

B. 5, Junk value, 5

C. Junk value, 5, Junk value

D. Junk value, 5, 5

Question No:45

(Marks:1)

Vu-Topper RM

Student *ptr = new Student("Ali"); is an example of _____.

A. Dynamic memory allocation

B. Destructor

C. Static memory allocation

D. Constructor

Question No:46

(Marks:1)

Vu-Topper RM

Constant data members of a class can be initialized by using _____.

A. Non-constant Member Function

B. Class

C. Constant Member Function

D. Member Initializer List

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Question No:47

(Marks:1)

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Static Data Member of a class is declared _____.

- A. Outside the class
- B. Outside the main() method
- C. Inside the class**
- D. Inside main() method

Question No:48

(Marks:1)

Vu-Topper RM

Which of the following can be created without any object of a class?

- A. Static Data Members**
- B. Array of Objects
- C. Non-Static Data Members
- D. Instance Variables

Question No:49

(Marks:1)

Vu-Topper RM

In operator overloading, which of the following operator takes one or no argument.

- A. ++**
- B. %
- C. *
- D. <<

Question No:50

(Marks:1)

Vu-Topper RM

In OOP, static data members of a class are called _____ variables.

- A. Structure
- B. Class**
- C. Object
- D. Function

Question No:51

(Marks:1)

Vu-Topper RM

Memory is allocated to non-static members only, when

_____.

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- A. Program is compiled
- B. Object is destructed
- C. Class is created
- D. Object is created**

Question No:52 (Marks:1) **Vu-Topper RM**

Which of the following best describes relationship between House and Address classes?

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

Question No:53 (Marks:1) **Vu-Topper RM**

Which of the following best describes relationship between House and Address classes?

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

Question No:54 (Marks:1) **Vu-Topper RM**

_____ means that different objects can behave in different ways for the same message.

- A. Generalization
- B. Specialization
- C. Polymorphism**
- D. Abstraction

Question No:55 (Marks:1) **Vu-Topper RM**

In order to make any function constant, keyword const is placed _____ the parameter list.

- A. after

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- B. within
- C. between
- D. before**

Question No:56 (Marks:1) **Vu-Topper RM**

Which of the following is NOT true about Inline function?

- A. Inline function decreases the code execution time.
- B. Inline function does not substitute the code within the function definition on a function call.**
- C. It is used by compilers to improve efficiency of the program.
- D. Small size functions that need to be called many times during program execution are declared inline.

Question No:57 (Marks:1) **Vu-Topper RM**

_____ are best candidates to become objects in problem description.

- A. Verbs
- B. Adjectives
- C. Adverb
- D. Nouns**

Question No:58 (Marks:1) **Vu-Topper RM**

Which of the following is not a pillar of Object Orientation Programming?

- A. Polymorphism
- B. Abstraction
- C. Encapsulation
- D. Normalization**

Question No:59 (Marks:1) **Vu-Topper RM**

Which of the following is an advantage of inheritance?

- A. Inconsistency
- B. Re-usability**

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- C. Redundancy
- D. Ambiguity

Question No:60 (Marks:1)

Vu-Topper RM

An object has _____ interface(s).

A. One or more than one

- B. No
- C. Only one
- D. Only two

Question No:61 (Marks:1)

Vu-Topper RM

How the information hidden within an object can be accessed?

A. Through its interface

B. Through both public and private members

- C. Through its private data members
- D. Through its private member functions

Question No:62 (Marks:1)

Vu-Topper RM

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

- A. Eat
- B. Work
- C. Name**
- D. Sleep

Question No:63 (Marks:1)

Vu-Topper RM

Inheritance is the relationship between _____.

- A. Functions
- B. Classes**
- C. Messages
- D. Interfaces

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Question No:64

(Marks:1)

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Suppressed form of class representation contains _____.

- A. Interface Name
- B. Operations
- C. Class Name
- D. Attributes**

Question No:65

(Marks:1)

Vu-Topper RM

Generalization is implemented through _____.

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

Question No:66

(Marks:1)

Vu-Topper RM

Entities in Object Oriented model are represented by _____.

- A. Rectangle**
- B. Circle
- C. Lines
- D. Square

Question No:67

(Marks:1)

Vu-Topper RM

_____ couples data and behavior tightly inside the object.

- A. Abstraction
- B. Polymorphism
- C. Inheritance
- D. Encapsulation**

Question No:68

(Marks:1)

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Constructors have _____ return type.

- A. No**
- B. Char
- C. Void

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D. Int

Question No:69

(Marks:1)

Vu-Topper RM

Destructor is a function which has the same name as that of class, but starts with a _____ sign.

A. \$

B. ~

C. #

D. %

Question No:70

(Marks:1)

Vu-Topper RM

Which of the following is NOT true about constructors?

A. Constructors can use_INITIALIZER list for initializing the constant data members.

B. Constructors can be const.

C. Constructors are called automatically.

D. Constructors are used to modify the object to a well-defined state.

Question No:71

(Marks:1)

Vu-Topper RM

_____ is automatically called when the object is created.

A. Data Member

B. Member Function

C. Constructor

D. Object

Question No:72

(Marks:1)

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A child inherits characteristics from _____.

A. Sibling

B. Neighbor

C. Itself

D. Parent

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Question No:73

(Marks:1)

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_____ is the relationship between the “part” object and the “whole” object.

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

Question No:74

(Marks:1)

Vu-Topper RM

Constructor is used to _____ the objects of a class.

- A. update
- B. delete
- C. create
- D. initialize**

Question No:75

(Marks:1)

Vu-Topper RM

Which of the following is NOT True about Destructor?

- A. Used to perform house keeping operations
- B. Free memory allocated using new operator
- C. Used to free memory allocated through dynamic allocation
- D. Used to free memory allocated through static allocation**

Question No:76

(Marks:1)

Vu-Topper RM

“A fan has wings”. Which type of relationship exists between fan and wings in this sentence?

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

Question No:77

(Marks:1)

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The concept of derived classes is involved in _____.

- A. encapsulation

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- B. abstraction
- C. inheritance**
- D. aggregation

Question No:78 (Marks:1) **Vu-Topper RM**
The functions defined inside the class are usually taken _____ by compiler.

- A. Public
- B. Static
- C. Inline**
- D. Constant

Question No:79 (Marks:1) **Vu-Topper RM**
Which of the following statement best describes the Constructor?

- A. Constructor is used to initialize the data members of a class.**
- B. Constructor is used to delete the objects of a class.
- C. Constructor is used to create an object of a class.
- D. Constructor is used to modify constant data members of the class.

Question No:80 (Marks:1) **Vu-Topper RM**
Compiler generated default constructor is called _____ and user written default constructor is called _____.

- A. Implicit, Explicit**
- B. Explicit, User-defined
- C. Compiler-defined, Implicit
- D. Explicit, Implicit

Question No:81 (Marks:1) **Vu-Topper RM**
We can allocate dynamic memory in C++ through _____ operator.

- A. Static
- B. New**
- C. Const

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D. Global

Question No:82 (Marks:1)

Vu-Topper RM

Which of the following is a tangible entity?

- A. Database
- B. Time
- C. Car**
- D. Date of birth

Question No:83 (Marks:1)

Vu-Topper RM

What is meant by multiple inheritance?

- A. Deriving a derived class from base class
- B. Deriving a derived class from more than one base class**
- C. None of the given option
- D. Deriving a base class from derived class

Question No:84 (Marks:1)

Vu-Topper RM

Through _____, Objects communicate with outer world.

- A. Polymorphism
- B. Encapsulation
- C. Interface**
- D. None of these

Question No:85 (Marks:1)

Vu-Topper RM

Suppose Person is a class, which of the following statement declares an object of class Person?

- A. Object Person;
- B. Define Object;
- C. Create Person object;
- D. Person person;**

Question No:86 (Marks:1)

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_____ is the reverse process of Generalization.

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A. Specialization

- B. Aggregation
- C. Inheritance
- D. Dependence

Question No:87

(Marks:1)

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Suppose a class does not have any constructor. What will happen when an object of this class is created?

A. Compiler will call default parameterized constructor.

B. Compiler will call implicit default constructor.

C. Compiler will generate syntax error.

D. Run time error will occur.

Question No:88

(Marks:1)

Vu-Topper RM

How many objects can be created once a class is defined?

A. As many as needed

B. Two

C. Four

D. Three

Question No:89

(Marks:1)

Vu-Topper RM

“Object hides its information from others”, this concept is known as

_____.

A. Polymorphism

B. Information Hiding

C. Specialization

D. Inheritance

Question No:90

(Marks:1)

Vu-Topper RM

In OOP, which of the following feature is used to derive a class from another class?

A. Inheritance

B. Data hiding

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- C. Polymorphism
- D. Encapsulation

Question No:91 (Marks:1) **Vu-Topper RM**

Statement “Yasir is a friend of Ali and Ali is a friend of Yasir” is an example of _____.

- A. Ternary association
- B. N-ary association
- C. Two way association**
- D. One way association

Question No:92 (Marks:1) **Vu-Topper RM**

Which of the following can be the behavior of an object “Usman”?

- A. Name
- B. Eat**
- C. Address
- D. Age

Question No:93 (Marks:1) **Vu-Topper RM**

Class is blueprint of a/an _____.

- A. Interface
- B. Model
- C. Function
- D. Object**

Question No:94 (Marks:1) **Vu-Topper RM**

Which of the following statements defines destructor for class Student?

- A. ~Student() { //... }**
- B. ~Destruct() { //... }
- C. ~Destructor() { //... }
- D. ~DestroyStudent() { //... }

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Question No:95

(Marks:1)

Vu-Topper RM

Which of the following is an advantage of encapsulation?

- A. Increase Memory Usage
- B. Inefficient Code
- C. Complexity
- D. Information Hiding**

Question No:96

(Marks:1)

Vu-Topper RM

Which of the following is NOT true about constructor?

- A. Constructor is a special function which can have different name than class name.**
- B. Constructor is used to initialize data members of a class.
- C. Constructors are commonly public members of a class.
- D. Constructor does not have return type.

Question No:97

(Marks:1)

Vu-Topper RM

Abstraction hides the _____ details.

- A. Irrelevant
- B. Public
- C. Relevant**
- D. Private

Question No:98

(Marks:1)

Vu-Topper RM

_____ is used for hiding the details of an object from the other parts of a program?

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

Question No:99

(Marks:1)

Vu-Topper RM

Which of the following method allows to reuse the characteristics of more than one parent class?

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- A. Polymorphism
- B. Single inheritance
- C. Specialization
- D. Multiple Inheritance**

Question No:100 (Marks:1) **Vu-Topper RM**
Which of the following is part of the class in UML diagram?

- A. Attributes
- B. Behaviors
- C. Class Name
- D. All of the given options**

Question No:101 (Marks:1) **Vu-Topper RM**
Abstraction provides information according to _____.

- A. Random information
- B. All information
- C. Behavioural perspective
- D. User perspective**

Question No:102 (Marks:1) **Vu-Topper RM**
In class, attributes and behaviors are represented by _____ and _____ respectively.

- A. Access Specifiers, Friend Functions
- B. Member functions, Data members
- C. Member functions, Accessor Specifiers
- D. Data Members, Member Functions**

Question No:103 (Marks:1) **Vu-Topper RM**
Interface is a set of _____ of an object exposed to other objects.

- A. Methods**
- B. Classes
- C. Attributes
- D. Structures

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Question No:104

(Marks:1)

Vu-Topper RM

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

Which of the following best describes relationship between House and Address classes?

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

Question No:105

(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:106

(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:107

(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:108

(Marks:1)

Vu-Topper RM

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

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

Question No:109

(Marks:1)

Vu-Topper RM

Composition is _____ and aggregation is _____ relationship.

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

Question No:110

(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:111

(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:112

(Marks:1)

Vu-Topper RM

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

- A. const RollNo;

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

Question No:113

(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:114

(Marks:1)

Vu-Topper RM

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

_____:

- A. :symbol
- B. :: symbol
- C. ->symbol
- D. & symbol** **Google**

Question No:115

(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;

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Question No:116

(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:117

(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:118

(Marks:1)

Vu-Topper RM

Static Data Members can be accessed through _____.

- A. Semi colon
- B. Dot operator
- C. Scope resolution operator
- D. Dot operator and scope resolution operator**

Question No:119

(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;

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Question No:120

(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:121

(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:122

(Marks:1)

Vu-Topper RM

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

- A. Whole, part
- B. Parent, child**
- C. Base, derived
- D. All given options are correct.

Question No:123

(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:124

(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:125

(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:126

(Marks:1)

Vu-Topper RM

Copy constructor is called when:

- A. An object is deleted.
- B. An object is created.
- C. An array of objects is created.
- D. An object is created in term of pre existing object.**

Question No:127

(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

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Question No:128

(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:129

(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:130

(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:131

(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?

- A. Inline**
- B. Virtual

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- C. Instance
- D. Function

Question No:132 (Marks:1) **Vu-Topper RM**

In OOP, we can achieve reusability through _____.

- A. Inheritance**
- B. Association
- C. Data Hiding
- D. Encapsulation

Question No:133 (Marks:1) **Vu-Topper RM**

Through interface we represent object's _____.

- A. State
- B. Class
- C. Behavior**
- D. Data members

Question No:134 (Marks:1) **Vu-Topper RM**

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

- A. Only one per class
- B. One object per variable
- C. Only one per constructor.
- D. As many as the application asks for**

Question No:135 (Marks:1) **Vu-Topper RM**

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

- A. Abstraction
- B. Composition
- C. Generalization**
- D. Specialization

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Question No:136

(Marks:1)

Vu-Topper RM

“Student registers Course and Teacher teaches the Course.” is an example of _____.

- A. Binary Association**
- B. N-ary Association
- C. Ternary Association
- D. Two way Association

Question No:137

(Marks:1)

Vu-Topper RM

An instance of user defined type is called _____.

- A. Class
- B. Method
- C. Variable
- D. Object**

Question No:138

(Marks:1)

Vu-Topper RM

Enclosing all the characteristics of an object within the object itself is described as _____.

- A. Inheritance
- B. Abstraction
- C. Encapsulation**
- D. Polymorphism

Question No:139

(Marks:1)

Vu-Topper RM

Which of the following is a strong relationship?

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

Question No:140

(Marks:1)

Vu-Topper RM

Composition is a strong relationship because _____.

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- A. Composed objects can exist independently.
B. Compose object cannot exist independently
C. Composed objects are dependent on the relation type.
D. Composed object's relationship depends on the number of objects.

Question No:141 (Marks:1) **Vu-Topper RM**

Which of the following is NOT an access specifier in C++?

- A. Public
B. Private
C. Hidden
D. Protected

Question No:142 (Marks:1) **Vu-Topper RM**

How can we identify classes from a given problem statement?

- A. By extracting Verbs from problem statement
B. By extracting Adverbs from problem statement
C. By extracting Nouns from problem statement
D. By extracting Adjectives from problem statement

Question No:143 (Marks:1) **Vu-Topper RM**

Constructor without any parameter is called _____.

- A. Copy constructor
B. Default constructor
C. Overloaded constructor
D. Parameterized constructor

Question No:144 (Marks:1) **Vu-Topper RM**

All objects of same class has _____ attributes.

- A. Same**
B. Double
C. Integer
D. Different

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Question No:145

(Marks:1)

Vu-Topper RM

Mermaid is an example of _____.

- A. Specialization
- B. Polymorphism
- C. Single inheritance

D. Multiple Inheritance

Question No:146

(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: ()
- C. Inequality Operator: !=

D. Stream Extraction Operator: >>

Question No:147

(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:148

(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:149

(Marks:1)

Vu-Topper RM

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

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A. Member function, int

Google

B. Member function, char

C. Non-member function, int

D. Non-member function, char

Question No:150

(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:151

(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:152

(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:153

(Marks:1)

Vu-Topper RM

Insertion operator is _____ associative.

A. Left to Left

B. Right to Left

C. Left to Right

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D. Right to Right

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Question No:154

(Marks:1)

Vu-Topper RM

In `str1 = str2 = str3 = str4`, which assignment is executed first?

- A. `str3 = str4`**
- B. `str2 = str3`
- C. `str1 = str4`
- D. `str1 = str2`

Question No:155

(Marks:1)

Vu-Topper RM

Composition in C++ is implemented by _____

- A. Including one class as a data member of another.**
- B. Inheriting one class from another class.
- C. Defining a global function.
- D. Defining a template.

Question No:156

(Marks:1)

Vu-Topper RM

Which of the following keyword enables a non-member function to access private data of a class? Options:

- A. `private`
- B. `friend`**
- C. `public`
- D. `static`

Question No:157

(Marks:1)

Vu-Topper RM

Choose correct declaration of overloaded `*=` operator for class `Complex` as member function.

- A. `Complex & operator(*=);`
- B. `Complex & operator*=(const Complex & C);`**
- C. `Complex & operator*=(const Complex & C1, const Complex & C2);`
- D. `Complex & operator*=();`

Question No:158

(Marks:1)

Vu-Topper RM

When overloading a binary operator using a non-member function, how many parameters does it take?

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- A. Four
- B. Three
- C. Two**
- D. One

Question No:159 (Marks:1) **Vu-Topper RM**

What is the purpose of creating a temporary object in the overloaded operator +?

- A. To create a memory leak
- B. To optimize memory
- C. To avoid modifying original operands**
- D. To increase processing speed

Question No:160 (Marks:1) **Vu-Topper RM**

Which of the following statements is true about composition?

- A. Objects can exist independently.
- B. Sub-object is destroyed with the main object.**
- C. Sub-object must be static.
- D. Sub-object can exist without the main object.

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