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CS304:Grand Quiz (Mid Term Exam)

Question # 2 of 30 (Start time: 12:03:44 AM, 27 June 2020)

_____ represents "IS A" relationship.

Select the correct option

- | | |
|-----------------------|---|
| <input type="radio"/> | Simple Association |
| <input type="radio"/> | Inheritance  |
| <input type="radio"/> | Composition |
| <input type="radio"/> | Aggregation |

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Question # 7 of 30 (**Start time: 12:09:53 AM**)

_____ is the reverse process of Gene

Select the correct option

- | | |
|-----------------------|-------------|
| <input type="radio"/> | Aggregation |
| <input type="radio"/> | Inheritance |
- 

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Question # 4 of 30 (Start time: 12:06:14 AM, 27 June 2020)

Inheritance is shown by:

Select the correct option

- | | |
|-----------------------|-----------------|
| <input type="radio"/> | Open head arrow |
| <input type="radio"/> | Filled arrow |
| <input type="radio"/> | Single Line |
| <input type="radio"/> | Bi-directional |

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Question # 6 of 30 (Start time: 12:08:30 AM, 27 June 2020)

Entities in OO model are represented by:

Select the correct option

<input type="radio"/>	Circle
<input type="radio"/>	Square
<input type="radio"/>	Lines
<input type="radio"/>	Rectangle



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Question # 5 of 30 (Start time: 12:07:23 AM, 27 June 2020)

Composition is _____ relationship.

Select the correct option

- | | |
|-----------------------|------------|
| <input type="radio"/> | Is a |
| <input type="radio"/> | Is kind a |
| <input type="radio"/> | Has |
| <input type="radio"/> | Part-Whole |
- 

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Question # 10 of 30 (**Start time: 12:13:34 AM, 27 June 2020**)

Suppose Person is a class, which of the following statements define

Select the correct option

- | | | |
|-----------------------|-----------------------|---|
| <input type="radio"/> | Create Person object; |  |
| <input type="radio"/> | Define Object; | |
| <input type="radio"/> | Person person; | |
| <input type="radio"/> | Object Person; | |

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Question # 11 of 30 (Start time: 12:14:55 AM, 27 June 2020)

A class can have only _____ destructor.

Select the correct option

- | | |
|-----------------------|--|
| <input type="radio"/> | One  |
| <input type="radio"/> | Two |
| <input type="radio"/> | Three |
| <input type="radio"/> | Four |

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Question # 9 of 30 (**Start time: 12:12:18 AM, 2**

A post-fix unary operator is implemented in C++ us

Select the correct option

<input type="radio"/>	1 dummy char argument
<input type="radio"/>	1 dummy int argument

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Question # 13 of 30 (**Start time: 12:17:08 AM, 27 June 2020**)

Consider the following code segment.

```
class test
{
    int a;
    int b;
    int c;
```

Select the correct option

- | | |
|-----------------------|--|
| <input type="radio"/> | 5, 5, 5 |
| <input type="radio"/> | 5, Junk value, 5 |
| <input type="radio"/> | Junk value, 5, Junk value  |
| <input type="radio"/> | Junk value, 5, 5 |

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Question # 12 of 30 (**Start time: 12:15:38 AM, 27 June 2020**)

Member functions defined inside a class declaration are _____

Select the correct option

- | | |
|-----------------------|--|
| <input type="radio"/> | Visible |
| <input type="radio"/> | Public  |
| <input type="radio"/> | Private |
| <input type="radio"/> | Protected |

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Question # 15 of 30 (Start time: 12:19:35 AM, 27 June 2020)

If you have three classes in a C++ program A, B, and C where class A inherits from class B, then class _____

Select the correct option

B, A



A, B

A, C

B, C

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Question # 14 of 30 (Start time: 12:18:13 AM, 27 June 20

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

Select the correct option

- | | |
|-----------------------|--|
| <input type="radio"/> | Static memory allocation  |
| <input type="radio"/> | Dynamic memory allocation |
| <input type="radio"/> | Destructor |
| <input type="radio"/> | Constructor |

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Question # 17 of 30 (Start time: 12:21:50 AM, 27 June 2020)

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

Select the correct option

<input type="radio"/>	Inheritance
<input type="radio"/>	Composition 
<input type="radio"/>	Association
<input type="radio"/>	Polymorphism

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Question # 20 of 30 (**Start time: 12:25:56 AM, 2**

Through _____, Objects communicate with ou

Select the correct option

- | | |
|-----------------------|--|
| <input type="radio"/> | Encapsulation |
| <input type="radio"/> | Interface  |
| <input type="radio"/> | Inheritance |

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Question # 18 of 30 (Start time: 12:23:17 AM, 27 June 2020)

Consider the following call of an overloaded operator "+" for Complex class:
C1 / C2
Where "+" is overloaded as member function of class Complex and C1 and C2 are the two objects of Complex class. Identify which of the above two objects is the left operand of the function?

Select the correct option

- C1
- C2
- Both C1 and C2
- Any of the two objects, randomly



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Question # 19 of 30 (Start time: 12:24:43 AM, 27 June 2020)

Information hiding can be achieved through _____

Select the correct option

- | | |
|-----------------------|--|
| <input type="radio"/> | Encapsulation, Inheritance |
| <input type="radio"/> | Encapsulation, Polymorphism |
| <input type="radio"/> | Encapsulation, Abstraction  |
| <input type="radio"/> | Encapsulation, Overloading |

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Question # 22 of 30 (Start time: 12:28:17 AM, 27 June 2020)

What is meant by multiple inheritance?

Select the correct option

- | | |
|-----------------------|--|
| <input type="radio"/> | Deriving a base class from derived class |
| <input type="radio"/> | Deriving a derived class from base class |
| <input type="radio"/> | Deriving a derived class from more than one base class |
| <input type="radio"/> | None of the given option |
- 

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Question # 23 of 30 (Start time: 12:29:26 AM, 27 Ju

Through interface we access object's _____

Select the correct option

- | | |
|-----------------------|--------------|
| <input type="radio"/> | States |
| <input type="radio"/> | Data members |
| <input type="radio"/> | Behaviour |

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Question # 21 of 30 (Start time: 12:26:54 AM, 27

Which of the following operator(s) take(s) one or no a

Select the correct option

<input type="radio"/>	++	
<input type="radio"/>	*	
<input type="radio"/>	%	

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Question # 24 of 30 (Start time: 12:30:53 AM, 27 June 2020)

The relationship between container and contained object is known as _____

Select the correct option

<input type="radio"/>	Inheritance
<input type="radio"/>	Association
<input type="radio"/>	Composition
<input type="radio"/>	Aggregation

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Question # 26 of 30 (Start time: 12:33:02 AM, 27 June 2020)

Which of the following can only be overloaded as member function of the class

Select the correct option

- | | |
|-----------------------|---|
| <input type="radio"/> | Equality operator: ==  |
| <input type="radio"/> | Inequality Operator: != |
| <input type="radio"/> | Function Operator: () |
| <input type="radio"/> | Stream Extraction Operator: >> |

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Question # 29 of 30 (**Start time: 12:35:48 AM, 27 J**

In _____, a pointer or reference to an object is

Select the correct option

- | | |
|-----------------------|-------------|
| <input type="radio"/> | Aggregation |
| <input type="radio"/> | Composition |
| <input type="radio"/> | Separation |

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Question # 27 of 30 (Start time: 12:34:07 AM,

Polymorphism makes the system:

Select the correct option

reusable

flexible

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Question # 28 of 30 (Start time: 12:34:53 AM,

Which of the following concept is more close to e

Select the correct option

<input type="radio"/>	Exception Handling
<input type="radio"/>	Inheritance
<input type="radio"/>	

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Question # 1 of 30 (Start time: 12:35:53 AM, 27 June 2020)

Which of the following can be used as a static members?

Select the correct option

- | | |
|----------------------------------|---|
| <input type="radio"/> | Local Variables |
| <input checked="" type="radio"/> | Global Variables  |
| <input type="radio"/> | Constant Variables |

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Question # 30 of 30 (Start time: 12:36:22 AM, 27

A child inherits characteristics from its _____.

Select the correct option

<input type="radio"/>	Neighbor
<input checked="" type="radio"/>	Parent
<input type="radio"/>	Sibling

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Question # 25 of 30 (Start time: 12:32:11 AM, 27 June

which of the following is part of the class diagram?

Select the correct option

<input type="radio"/>	Class Name
<input type="radio"/>	Attributes
<input type="radio"/>	Behaviors
<input type="radio"/>	All of the given options

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Question 2 of 30 (Start time: 12:41:46 AM, 27 June 2020)

How can we identify classes from a give statement?

Select the correct option



By extracting Nouns from problem state



By extracting Verbs from problem stater



By extracting Adjectives from problem s

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Question 7 4 of 30 (Start time: 12:43:20 AM, 27 June 2020)

Aggregation between objects shows that

Select the correct option

Objects have strong relationship



Objects have weak relationship



Objects have no relationship



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Question # 5 of 30 (Start time: 12:44:28 AM, 27 June 2020)

All objects of same class has _____

Select the correct option

- | | |
|----------------------------------|-------------------|
| <input type="radio"/> | Different |
| <input type="radio"/> | Equal |
| <input checked="" type="radio"/> | Same |
| <input type="radio"/> | None of the above |

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Question # 2 of 30 (Start time: 12:38:02 AM, 27 June 2020)

In OOP we can achieve reusability through

Select the correct option

Inheritance

Encapsulation



Aggregation

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Question 4 of 30 (Start time: 12:43:20 AM, 27 June 2020)

Aggregation between objects shows that

Select the correct option

Objects have strong relationship

Objects have weak relationship

Objects have no relationship

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Question # 14 of 30 (Start time: 12:54:05 AM, 27 June 2020)

Abstraction provides information accord

Select the correct option

- | | |
|-----------------------|--------------------|
| <input type="radio"/> | User perspective |
| <input type="radio"/> | Owner perspective |
| <input type="radio"/> | Random information |
- 

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Question # 6 of 30 (Start time: 12:46:06 AM, 27 June 2020)

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

Select the correct option



Compiler will generate syntax error.



Run time error will occur.



Compiler will call implicit default constructor.

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Question 7 of 30 (Start time: 12:47:08 AM, 27 June 2020)

_____ Operator is used to create ob

Select the correct option

- | | |
|----------------------------------|---------|
| <input type="radio"/> | create |
| <input checked="" type="radio"/> | new |
| <input type="radio"/> | dynamic |

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Question # 11 of 30 (Start time: 12:51:32 AM, 27 June 2020)

In Object Oriented programming, objects each other through _____

Select the correct option



Messages



Data members



Voice chat

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Question 7 of 30 (Start time: 12:47:53 AM, 27 June 2020)

Which of the following is an example of c

Select the correct option



Car , Chair



Student , Teacher



Teacher , Height

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Question # 10 of 30 (Start time: 12:50:35 AM, 27 June 2020)

Inheritance is shown by:

Select the correct option



Open head arrow



Filled arrow



Single Line

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Question # 13 of 30 (Start time: 12:53:13 AM, 27 June 2020)

Identify the common attributes of the given shapes.

Circle has color, vertices, and radius.

Triangle has color, vertices, and angle.

Select the correct option

- | | |
|----------------------------------|------------------|
| <input checked="" type="radio"/> | Color, Vertices |
| <input type="radio"/> | Vertices, Radius |
| <input type="radio"/> | Color, Angle |

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Question # 20 of 30 (Start time: 01:01:09 AM, 27 June 2020)

Suppressed form of class representation

Select the correct option

- | | |
|----------------------------------|---|
| <input type="radio"/> | Operations |
| <input checked="" type="radio"/> | Class Name  |
| <input type="radio"/> | Attributes |

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Question # 22 of 30 (Start time: 01:02:54 AM, 27 June 2020)

How many objects are involved in the N-a

Select the correct option

More than 1

More than 2

More than 3



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Question # 22 of 30 (Start time: 01:02:54 AM, 27 June 2020)

How many objects are involved in the N-a

Select the correct option



More than 1



More than 2



More than 3

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Question # 9 of 30 (Start time: 12:48:25 AM, 27 June 2020)

Choose the correct statement.

Select the correct option

- Constructors cannot be const.
- Destructors cannot be const.
- Constructors and Destructors are used to
to a well-defined state.

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Question # 21 of 30 (Start time: 01:02:03 AM, 27 June 2020)

“A fan has wings”. Which type of relation and wings in this sentence?

Select the correct option

- | | |
|-----------------------|----------------|
| <input type="radio"/> | Aggregation |
| <input type="radio"/> | Association |
| <input type="radio"/> | Generalization |
| <input type="radio"/> | Composition |

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Question # 17 of 30 (Start time: 12:57:08 AM, 27 June 2020)

In expression $c1*c2+c3-c4$ which of the following is executed in first order?

Select the correct option

- | | |
|----------------------------------|----------|
| <input checked="" type="radio"/> | $c1*c2$ |
| <input type="radio"/> | $c2+c3$ |
| <input type="radio"/> | $c3 -c4$ |
| <input type="radio"/> | $c1 -c4$ |

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Question # 18 of 30 (Start time: 12:57:51 AM, 27 June 2020)

An object has attributes, operations, and

POI

Select the correct option

Unique Identity



Behavior



Characteristics



All of these

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Question # 24 of 30 (Start time: 01:05:11 AM, 27 June 2020)

Which of the following operator(s) take(s) argument if overloaded?

Select the correct option

<input type="radio"/>	++
<input type="radio"/>	*
<input type="radio"/>	%

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Question # 15 of 30 (Start time: 12:55:12 AM, 27 June 2020)

In _____, base class can be replaced by derived class.

Select the correct option

- | | |
|----------------------------------|-------------|
| <input type="radio"/> | Aggregation |
| <input checked="" type="radio"/> | Inheritance |
| <input type="radio"/> | Dependency |

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Question # 19 of 30 (Start time: 12:59:29 AM, 27 June 2020)

Which relationship exists between Cat and

Select the correct option

- | | |
|-----------------------|-------------|
| <input type="radio"/> | Inheritance |
| <input type="radio"/> | Aggregation |
| <input type="radio"/> | Abstraction |
- 

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Question # 16 of 30 (Start time: 12:55:59 AM, 27 June 2020)

Hiding the implementation details makes

Select the correct option

- Easy to understand
- More complex
- Provide more features

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Question # 28 of 30 (Start time: 01:10:10 AM, 27 June 2020)

Extension or subtyping is _____ appro

Select the correct option

- | | |
|----------------------------------|--|
| <input type="radio"/> | Bottom-up |
| <input checked="" type="radio"/> | Top-bottom  |
| <input type="radio"/> | Right-Left |

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Question # 12 of 30 (Start time: 12:52:30 AM, 27 June 2020)

Subtyping means that derived class is be
_____ with the base class.

Select the correct option

- | | |
|----------------------------------|---|
| <input type="radio"/> | Same |
| <input checked="" type="radio"/> | Compatible  |
| <input type="radio"/> | Different |

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Question # 25 of 30 (Start time: 01:06:50 AM, 27 June 2020)

_____ is the weakest link between objects

Select the correct option

- | | |
|-----------------------|--------------|
| <input type="radio"/> | Inheritance |
| <input type="radio"/> | Polymorphism |
| <input type="radio"/> | Composition |
| <input type="radio"/> | Association |

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Question # 27 of 30 (Start time: 01:09:05 AM, 27 June 2020)

Mermaid is an example of:

Select the correct option

- | | |
|-----------------------|----------------------|
| <input type="radio"/> | Single inheritance |
| <input type="radio"/> | Polymorphism |
| <input type="radio"/> | Specialization |
| <input type="radio"/> | Multiple Inheritance |

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Question # 4 of 30 (**Start time: 01:14:36 AM**)

Memory is allocated to non static members only

Select the correct option

<input type="radio"/>	Class is created
<input type="radio"/>	Program is compiled

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Question # 23 of 30 (Start time: 01:04:06 AM, 27 June 2020)

In polymorphism, messages can be interpreted in different ways depending upon the _____ class.

Select the correct option

base

derived

sender



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Question # 26 of 30 (Start time: 01:00:04 AM, 27 June 2020)

In which of the following way(s), we can another class in C++?

Select the correct option

- | | |
|-----------------------|------------------|
| <input type="radio"/> | Private |
| <input type="radio"/> | Public |
| <input type="radio"/> | Protected |
| <input type="radio"/> | All of the above |

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Question # 1 of 30 (Start time: 01:11:46 AM, 27 June 2020)

How can we differentiate between constructors and destructors?

Select the correct option

- | | |
|-----------------------|--|
| <input type="radio"/> | Destructors have a return type but Constructors do not have return type. |
| <input type="radio"/> | Destructors can't be defined by the programmer, but Constructors can be de |
| <input type="radio"/> | Destructors are preceded with a tilde (~) symbol, and Constructors are not p |
| <input type="radio"/> | Destructors are exactly same as Constructors in syntax. |

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Question 2 of 30 (Start time: 01:12:08 AM, 27 June 2020)

Suppose you have following C++ statements
`int oldValue=10;`
`int newValue = oldValue ++;`
What will be the value of `oldValue` and `newValue` after executing above statements?

Select the correct option

`oldValue= 11 , newValue=11`

`oldValue= 10 , newValue=10`

`oldValue= 11 , newValue=10`

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Question # 2 of 30 (**Start time: 01:13:20 AM, 27 J**

How many objects are involved in the Binary associa

Select the correct option

<input checked="" type="radio"/>	1
<input type="radio"/>	2



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Question # 29 of 30 (Start time: 01:11:06 AM, 27 June 2020)

A class defined within another class is:

Select the correct option

- | | |
|-----------------------|--|
| <input type="radio"/> | Nested Class  |
| <input type="radio"/> | Inheritance |
| <input type="radio"/> | Containership |

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Question # 7 of 30 (Start time: 01:18:11 AM, 27 Jun

In which of the following OOP paradigm objects can exist

Select the correct option

<input type="radio"/>	Polymorphism
<input type="radio"/>	Inheritance
<input type="radio"/>	Composition
<input type="radio"/>	Aggregation

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Question # 5 of 30 (Start time: 01:15:54 AM, 27 June 2020)

Which of the following will happen when a constant function tries to change the value of data

Select the correct option

- | | |
|-----------------------|--|
| <input type="radio"/> | Compiler will allow changing data members. |
| <input type="radio"/> | Program will be executed successfully. |
| <input type="radio"/> | Compile time error will occur. |
| <input type="radio"/> | Run time error will occur. ✓ |

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Question # 6 of 30 (Start time: 01:17:27 AM, 27 June 2020)

_____ means that different objects can behave in different ways for the

Select the correct option

<input type="radio"/>	Specialization
<input type="radio"/>	Generalization
<input type="radio"/>	Polymorphism
<input type="radio"/>	Abstraction

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Question # 3 of 30 (**Start time: 01:13:55 AM, 27 June 2020**)

In order to make any function constant, keyword const is placed at the

Select the correct option

- | | |
|----------------------------------|-------------------|
| <input type="radio"/> | Beginning |
| <input checked="" type="radio"/> | Middle |
| <input type="radio"/> | End |
| <input type="radio"/> | None of the given |

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Question # 18 of 30 (**Start time: 02:58:35 AM, 27**)

A post-fix unary operator is implemented in C++ using

Select the correct option

<input type="radio"/>	1 dummy char argument
<input type="radio"/>	1 dummy int argument



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Question # 12 of 30 (Start time: 02:50:45 AM, 27 June 2020)

In an OOP model private information should only be accessible to its _____

Select the correct option

- | | |
|-----------------------|---------------|
| <input type="radio"/> | Owner |
| <input type="radio"/> | Outside World |
| <input type="radio"/> | Objects |
| <input type="radio"/> | Class |
- 

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Question # 19 of 30 (**Start time: 03:00:04 AM, 27 J**

The other name of specialization is _____.



Select the correct option

- | | |
|-----------------------|-------------|
| <input type="radio"/> | Restriction |
| <input type="radio"/> | Extension |
| <input type="radio"/> | Dependency |



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Question # 13 of 30 (**Start time: 02:52:07 AM**)

Which of the following is a tangible entity?

Select the correct option

- | | |
|-----------------------|----------|
| <input type="radio"/> | Database |
| <input type="radio"/> | Time |

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Question # 1 of 30 (Start time: 12:02:51 AM, 27 Jun 2020)

What is a class?

Select the correct option

- | | |
|-----------------------|--|
| <input type="radio"/> | A class is a section of computer memory containing data and methods. |
| <input type="radio"/> | A class is a section of the hard disk reserved for the operating system. |
| <input type="radio"/> | A class is the part of an object that contains the data and methods. |

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Question # 13 of 30 (Start time: 12:17:08 AM)

Consider the following code segment:

```
class test
{
    int a;
    int b;
    int c;
```

Select the correct option

<input type="radio"/>	5, 5, 5
<input type="radio"/>	5, Junk value, 5
	Junk value, 5, Junk value



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Question # 8 of 30 (**Start time: 12:11:16 AM, 27 June 2020**)

Compiler generated default constructor is called _____ and user written

Select the correct option

- | | |
|-----------------------|----------------------------|
| <input type="radio"/> | Compiler-defined, Implicit |
| <input type="radio"/> | Explicit, User-defined |
| <input type="radio"/> | Explicit, Implicit |
| <input type="radio"/> | Implicit, Explicit |
- 

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Question # 22 of 30 (**Start time: 12:28:17 AM,**

What is meant by multiple inheritance?

Select the correct option

<input type="radio"/>	Deriving a base class from derived class
<input type="radio"/>	Deriving a derived class from base class
<input type="radio"/>	Deriving a derived class from more than one base class

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Question # 16 of 30 (Start time: 12:20:49 AM, 27 June 2020)

Consider the statement "room has chair" Which of the following type of associ

Select the correct option

- | | |
|-----------------------|-------------------------|
| <input type="radio"/> | Inheritance |
| <input type="radio"/> | Composition |
| <input type="radio"/> | There is no association |
| <input type="radio"/> | Aggregation |
- 