

CS304P ALL QUIZZES 2023 SOLVED BY PRINCE ALVI

BC220213510: ADIL ALVI

CS304P - Object Oriented Programming (Practical) (Lab 2 Quiz)

Question # 1 of 5 (Start time: 11:41:34 PM, 22 May 2023)

Which problem arises due to multiple inheritance, when the parent classes are also derived from the grandparent class?

Select the correct option

☒	Diamond
☐	Loop
☐	Triangle
☐	Circle

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Question # 2 of 5 (Start time: 11:42:25 PM, 22 May 2023)

People own Book. This type of relationship is known as _____

Select the correct option

☒	Binary Association
☐	Ternary Association
☐	Two-way Association
☐	One-way Association

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Question # 3 of 5 (Start time: 11:43:28 PM, 22 May 2023)

_____ is a concept to extract common behaviours by using Bottom to Top approach.

Select the correct option

☒	Generalization
☐	Sub-typing
☐	Specialization
☐	Extension

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Question # 4 of 5 (Start time: 11:44:36 PM, 22 May 2023)

Interaction of different objects in OO model is known as _____.

Select the correct option

☐	Abstraction
☒	Association
☐	Encapsulation
☐	Inheritance

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Question # 5 of 5 (Start time: 11:46:35 PM, 22 May 2023)

Information hiding can be achieved through _____.

Select the correct option

☐	Abstraction, Overloading
☐	Encapsulation, Polymorphism
☐	Abstraction, Inheritance
☒	Encapsulation, Abstraction

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CS304P - Object Oriented Programming (Practical) (Lab 2 Quiz)

Question # 3 of 5 (**Start time: 11:49:45 PM, 22 May 2023**)

How many entities are involved in a ternary relationship?

Select the correct option

☒	exactly 3
☐	less than 3
☐	More than 3
☐	3 or more

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CS304P – Object Oriented Programming (Practical) (Lab 2 Quiz)

Question # 4 of 5 (Start time: 11:50:49 PM, 22 May 2023)

A **Classroom** class holds **Students**.

Which of the following relationships best describe the above statement?

Select the correct option

☐	Aggregation
☐	Inheritance
☒	Composition
☐	Association

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CS304P - Object Oriented Programming (Practical) (Lab Quiz 3)

Question # 3 of 5 (Start time: 11:01:52 PM, 25 May 2023)

Which of the following is correct way of declaring the attribute as a public?

Select the correct option

- | | |
|----------------------------------|--------------------------------------|
| ☐ | class Student { char *name;; |
| ☐ | class Student public: { char *name;; |
| ☒ | class Student { public: char *name;; |
| ☐ | class public Student { char *name;; |

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CS304P - Object Oriented Programming (Practical) (Lab Quiz 3)

Question # 5 of 5 (Start time: 11:04:33 PM, 25 May 2023)

Which of the following is the default access specifier for members of a class?

Select the correct option

- | | |
|----------------------------------|-----------------------|
| ☒ | private |
| ☐ | public |
| ☐ | protected and private |
| ☐ | protected and public |

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CS304P - Object Oriented Programming (Practical) (Lab Quiz 3)

Question # 1 of 5 (Start time: 11:06:31 PM, 25 May 2023)

Which of the given option is not correct for destructor?

Select the correct option

- | | |
|----------------------------------|---|
| ☐ | Destructor is used to free the memory allocated through new operator. |
| ☐ | Destructor is used to free the memory allocated through dynamic allocation. |
| ☒ | Destructor is a function with the same name as that of class, but preceded with a tilde '~' |
| ☐ | Destructor is a function with the same name as that of class but preceded with a tilde '~' |

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CS304P – Object Oriented Programming (Practical) (Lab Quiz 3)

Question # 3 of 5 (Start time: 11:08:55 PM, 25 May 2023)

In classes which of the following is default access specifier?

Select the correct option

☐	None of the given option
☒	Private
☐	Public
☐	Protected

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CS304P - Object Oriented Programming (Practical) (Lab Quiz 3)

Question # 4 of 5 (Start time: 11:09:38 PM, 25 May 2023)

Which of the following is NOT true about constructor?

Select the correct option

- | | |
|----------------------------------|--|
| ☐ | Constructors are commonly public members |
| ☒ | Constructor does not have return type |
| ☐ | Constructor is a special function having the same name as the class name |
| ☐ | Constructor can be a constant function |

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CS304P – Object Oriented Programming (Practical) (Lab Quiz 3)

Question # 5 of 5 (Start time: 11:10:54 PM, 25 May 2023)

Which of the following is represented in suppressed form of class?

Select the correct option

☒	Class Name
☐	Data
☐	Attributes
☐	Operations

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CS304P - Object Oriented Programming (Practical) (Lab 4 Quiz)

Question # 1 of 5 (Start time: 11:21:41 PM, 29 May 2023)

Which of the following statement is used to return a reference of the current object from a member function?

Select the correct option

- | | |
|----------------------------------|------------------------|
| ☐ | return &this; |
| ☐ | return *currentObject; |
| ☒ | return *this; |
| ☐ | return this; |

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CS304P - Object Oriented Programming (Practical) (Lab 4 Quiz)

Question # 2 of 5 (Start time: 11:23:31 PM, 29 May 2023)

Which statement is not true for static member functions?

Select the correct option

- | | |
|----------------------------------|--|
| ☒ | They cannot access any non-static members. |
| ☐ | Access mechanism for static member functions is same as that of static data members. |
| ☐ | They are capable to access static as well as non-static member functions. |
| ☐ | They are used to access static data members. |

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CS304P - Object Oriented Programming (Practical) (Lab 4 Quiz)

Question # 3 of 5 (Start time: 11:25:03 PM, 29 May 2023)

Which of the following choice is not true for const functions?

Select the correct option

- | | |
|----------------------------------|---|
| ☐ | Modification in the state of any object is caught at compile time |
| ☐ | Constant member functions cannot modify the state of any object |
| ☐ | They are just "read-only" |
| ☒ | Modification in the state of any object is caught at run time |

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CS304P - Object Oriented Programming (Practical) (Lab 4 Quiz)

Question # 4 of 5 (Start time: 11:25:09 PM, 29 May 2023)

Consider the given class definition and choose the class which cannot exist standalone?

```
class Animal {  
    public:  
    void eat() {  
        cout << "I can eat!" << endl;  
    }  
};  
class Dog : public Animal {  
    public:  
    void bark() {  
        cout << "I can bark! Woof woof!" << endl;  
    }  
};  
class Lion : public Animal {  
    public:  
    void roar() {  
        cout << "I can roar!" << endl;  
    }  
};
```

Select the correct option

☐	All of the given options
☐	Dog
☐	Lion
☒	Animal

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CS304P – Object Oriented Programming (Practical) (Lab 4 Quiz)

Question # 5 of 5 (**Start time: 11:28:09 PM, 29 May 2023**)

Constant functions are the ones that are used to perform _____ operation(s) on data members.

Select the correct option

☐	write only
☐	read and write
☐	write and update
☒	read-only

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CS304P - Object Oriented Programming (Practical) (Lab 4 Quiz)

Question # 1 of 5 (**Start time: 11:37:01 PM, 29 May 2023**)

Which statement is not true for static member functions?

Select the correct option

- | | |
|----------------------------------|--|
| ☐ | Access mechanism for static member functions is same as that of static data members. |
| ☐ | They are capable to access static as well as non-static member functions. |
| ☒ | They cannot access any non-static members. |
| ☐ | They are used to access static data members. |

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CS304P - Object Oriented Programming (Practical) (Lab 4 Quiz)

Question # 2 of 5 (**Start time: 11:38:13 PM, 29 May 2023**)

Which of the following object(s) can call the const functions?

Select the correct option

☐	Only const objects
☒	Both const and non-const objects
☐	Neither const not non-const objects
☐	Only non-const objects

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CS304P - Object Oriented Programming (Practical) (Lab 4 Quiz)

Question # 3 of 5 (**Start time: 11:39:13 PM, 29 May 2023**)

We make any function constant by using _____.

Select the correct option

- | | |
|----------------------------------|--|
| ☐ | keyword const is placed after the Return Type of the function declaration. |
| ☐ | keyword const is placed at the beginning of the function declaration. |
| ☒ | keyword const is placed after the parameter list. |
| ☐ | keyword const is placed within the parameter list. |

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CS304P - Object Oriented Programming (Practical) (Lab 4 Quiz)

Question # 4 of 5 (**Start time: 11:40:53 PM, 29 May 2023**)

Which of the following best defines static data members of a class?

Select the correct option

- | | |
|----------------------------------|---|
| ☒ | Data member which is common to all the objects of a class |
| ☐ | Data member with global scope |
| ☐ | Data member which is allocated for each object separately |
| ☐ | Data member which is common to all the classes in a program |

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CS304P - Object Oriented Programming (Practical) (Lab 5 Quiz)

Question # 1 of 5 (**Start time: 11:38:02 PM, 31 May 2023**)

Which of the following creates the strongest relationship between two objects?

Select the correct option

☒	Composition
☐	Inheritance
☐	Aggregation
☐	Association

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CS304P - Object Oriented Programming (Practical) (Lab 5 Quiz)

Question # 2 of 5 (**Start time: 11:39:04 PM, 31 May 2023**)

The relationship between container and contained objects is called _____.

Select the correct option

☐	Inheritance
☒	Composition
☐	Association
☐	Aggregation

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CS304P - Object Oriented Programming (Practical) (Lab 5 Quiz)

Question # 3 of 5 (**Start time: 11:40:42 PM, 31 May 2023**)

When an object of a class is the data member of another class, it is called as _____.

Select the correct option

☐	Association
☐	aggregation
☒	composition
☐	inheritance

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CS304P - Object Oriented Programming (Practical) (Lab 5 Quiz)

Question # 4 of 5 (**Start time: 11:41:45 PM, 31 May 2023**)

What is the purpose of new operator?

Select the correct option

- | | |
|----------------------------------|--|
| ☐ | Used to declare any new thing in a program |
| ☐ | Used as return type when an object is created |
| ☒ | Allocates memory for an object or array and returns a particular pointer |
| ☐ | Allocates memory for an object or array |

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CS304P - Object Oriented Programming (Practical) (Lab 5 Quiz)

Question # 5 of 5 (**Start time: 11:42:48 PM, 31 May 2023**)

Which of the following is true about the friend functions?

Select the correct option

- | | |
|----------------------------------|--|
| ☐ | Friend functions can be placed anywhere in the class |
| ☒ | Prototypes of friend functions appear in the class definition. |
| ☐ | All of the given options |
| ☐ | Access specifiers has no impact on friend functions or classes |

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CS304P - Object Oriented Programming (Practical) (Lab 5 Quiz)

Question # 2 of 5 (**Start time: 11:44:38 PM, 31 May 2023**)

Why do we need relationships between classes?

Select the correct option

☐	To enhance the communication between classes
☐	To increase code re-usability
☒	All of the given option
☐	To use the functionality of one class into derived classes

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CS304P - Object Oriented Programming (Practical) (Lab 5 Quiz)

Question # 3 of 5 (**Start time: 11:45:27 PM, 31 May 2023**)

Which of the following is a weak relationship?

Select the correct option

☐	Inheritance
☐	Composition
☒	Association
☐	Aggregation

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CS304P - Object Oriented Programming (Practical) (Lab 5 Quiz)

Question # 4 of 5 (Start time: 11:46:12 PM, 31 May 2023)

Which of the following offers a programmer the facility of using a specific class object into other classes?

Select the correct option

☐	Polymorphism
☐	Inheritance
☐	Abstraction
☒	Composition

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CS304P - Object Oriented Programming (Practical) (Lab 5 Quiz)

Question # 5 of 5 (**Start time: 11:46:56 PM, 31 May 2023**)

Which of the following is true about the aggregation?

Select the correct option

- | | |
|----------------------------------|--|
| ☐ | The aggregation is a relationship between container and contained objects. |
| ☒ | All of the given options |
| ☐ | The life of the sub-object is dependent on the life of the master class. |
| ☐ | Aggregation is a weak relationship. |

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BC220208500: AMNA BIBI

CS304P - Object Oriented Programming (Practical) (General Quiz no #1(Graded))

Question # 1 of 10 (**Start time: 10:31:59 PM, 01 June 2023**)

Which of the following concept deals with the security of data?

Select the correct option

☐	Polymorphism
☐	Generalization
☐	Inheritance
☒	Data Hiding

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CS304P - Object Oriented Programming (Practical) (General Quiz no #1(Graded))

Question # 2 of 10 (**Start time: 10:33:06 PM, 01 June 2023**)

Chair is a(an) _____ object and patent is a(an) _____ object.

Select the correct option

☒	Tangible, Intangible
☐	Intangible, Tangible
☐	Intangible, Intangible
☐	Tangible, Tangible

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BC220208500: AMNA BIBI

CS304P - Object Oriented Programming (Practical) (General Quiz no #1(Graded))

Question # 3 of 10 (**Start time: 10:34:10 PM, 01 June 2023**)

Which of the following object(s) can call the const functions?

Select the correct option

☐	Both const and non-const objects
☐	Only non-const objects
☐	Neither const not non-const objects
☒	Only const objects

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BC220208500: AMNA BIBI

CS304P - Object Oriented Programming (Practical) (General Quiz no #1(Graded))

Question # 4 of 10 (**Start time: 10:35:03 PM, 01 June 2023**)

Which of the following is the default access specifier for members of a class?

Select the correct option

☐	public
☒	private
☐	protected and public
☐	protected and private

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BC220208500: AMNA BIBI

CS304P - Object Oriented Programming (Practical) (General Quiz no #1(Graded))

Question # 5 of 10 (**Start time: 10:36:30 PM, 01 June 2023**)

Information hiding can be achieved through -----.

Select the correct option

☐	Abstraction, Overloading
☐	Encapsulation, Polymorphism
☒	Encapsulation, Abstraction
☐	Abstraction, Inheritance

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CS304P – Object Oriented Programming (Practical) (General Quiz no #1(Graded))

Question # 6 of 10 (**Start time: 10:37:40 PM, 01 June 2023**)

Which of the given option is not correct for destructor?

Select the correct option

☐	Destructor is a function with the same name as that of class but preceded with a tilde ~
☐	Destructor is used to free the memory allocated through new operator.
☒	Destructor is a function with the same name as that of class, but preceded with a tilde 'void ~'
☐	Destructor is used to free the memory allocated through dynamic allocation.

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CS304P - Object Oriented Programming (Practical) (General Quiz no #1(Graded))

Question # 8 of 10 (**Start time: 10:41:54 PM, 01 June 2023**)

Which of the following is used to achieve information hiding?

Select the correct option

☐	Aggregation
☐	Composition
☒	Encapsulation
☐	Inheritance

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CS304P - Object Oriented Programming (Practical) (General Quiz no #1(Graded))

Question # 10 of 10 (**Start time: 10:43:58 PM, 01 June 2023**)

Object Orientation is the way of visualizing computer programs in the form of objects that represent _____.

Select the correct option

☐	Template
☐	Method
☐	Data
☒	Data and Method

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CS304P - Object Oriented Programming (Practical) (General Quiz no #1(Graded))

Question # 1 of 10 (Start time: 10:47:56 PM, 01 June 2023)

Which of the following is NOT true about constructor?

Select the correct option

- | | |
|----------------------------------|--|
| ☐ | Constructor is a special function having the same name as the class name |
| ☐ | Constructor does not have return type |
| ☒ | Constructor can be a constant function |
| ☐ | Constructors are commonly public members |

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CS304P - Object Oriented Programming (Practical) (General Quiz no #1(Graded))

Question # 2 of 10 (**Start time: 10:48:47 PM, 01 June 2023**)

Constant functions are the ones that are used to perform _____ operation(s) on data members.

Select the correct option

☐	write only
☐	read and write
☐	write and update
☒	read-only

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CS304P - Object Oriented Programming (Practical) (General Quiz no #1(Graded))

Question # 3 of 10 (**Start time: 10:49:21 PM, 01 June 2023**)

Which of the following can be the attribute of the Employee class?

Select the correct option

☐	Roll Number
☐	Course
☐	GPA
☒	Salary

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CS304P – Object Oriented Programming (Practical) (General Quiz no #1(Graded))

Question # 5 of 10 (Start time: 10:50:04 PM, 01 June 2023)

There are two classes Cat and Dog.

Behaviors of Cat class are eat() and meow().

Behaviors of Dog class are eat() and bark().

Which of the above behavior(s) could be extracted from this scenario as Generalization to create a new class?

Select the correct option

☐	meow()
☐	bark()
☒	eat()
☐	meow(), bark()

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CS304P - Object Oriented Programming (Practical) (General Quiz no #1(Graded))

Question # 6 of 10 (**Start time: 10:51:03 PM, 01 June 2023**)

Which of the following option is false?

Select the correct option

☒	Data members can't be inherited
☐	Member functions can be made private
☐	Public members are accessible from other classes also
☐	Private members can be accessed using friend functions

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CS304P – Object Oriented Programming (Practical) (General Quiz no #1(Graded))

Question # 8 of 10 (**Start time: 10:51:50 PM, 01 June 2023**)

Which problem arises due to multiple inheritance, when the parent classes are also derived from the grandparent class?

Select the correct option

☐	Loop
☐	Triangle
☐	Circle
☒	Diamond

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Following code is equivalent to which option.

```
class Shape  
{  
    string type;  
};
```

Select the correct option

- | | |
|----------------------------------|---|
| ☒ | class Shape { public: string type; }; |
| ☐ | class Shape public: { public: string type; }; |
| ☐ | class Shape { private: string type; }; |
| ☐ | class Shape { protected: string type; }; |

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BC210418517: JAWERIA QASIM

CS304P - Object Oriented Programming (Practical) (General Quiz no #1(Graded))

Question # 10 of 10 (**Start time: 10:53:52 PM, 01 June 2023**)

Which of the following class cannot exist standalone in an object model?

Select the correct option

☐	Friend Class
☐	Derived Class
☒	Abstract Class
☐	Concrete Class

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CS304P - Object Oriented Programming (Practical) (General Quiz no #1(Graded))

Question # 5 of 10 (**Start time: 10:57:06 PM, 01 June 2023**)

Which of the following is the default access specifier for members of a class?

Select the correct option

☐	protected and private
☒	private
☐	protected and public
☐	public

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CS304P - Object Oriented Programming (Practical) (General Quiz no #1(Graded))

Question # 6 of 10 (**Start time: 10:57:47 PM, 01 June 2023**)

Which of the following is correct way of declaring the attribute as a public?

Select the correct option

☐	class Student { char *name;};
☒	class Student { public: char *name;};
☐	class Student public: { char *name;};
☐	class public Student { char *name;};

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CS304P ALL QUIZZES 2023 SOLVED BY PRINCE ALVI

Car carries passengers.

Bus carries passengers.

Truck carries luggage.

Harvester harvests the crops.

Car, Bus, Harvester and Truck are derived from which class?

Select the correct option

☐	Passenger Transport
☒	Vehicle
☐	Public Transport
☐	Navy Ships

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CS304P ALL QUIZZES 2023 SOLVED BY PRINCE ALVI

CS304P - Object Oriented Programming (Practical) (General Quiz no #1(Graded))

Question # 8 of 10 (**Start time: 10:59:29 PM, 01 June 2023**)

In classes which of the following is default access specifier?

Select the correct option

☐	Public
☐	Private
☒	None of the given option
☐	Protected

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CS304P ALL QUIZZES 2023 SOLVED BY PRINCE ALVI

Consider the given class definition and choose the class which cannot exist standalone?

```
class Animal {  
    public:  
    void eat() {  
        cout << "I can eat!" << endl;  
    }  
};  
  
class Dog : public Animal {  
    public:  
    void bark() {  
        cout << "I can bark! Woof woof!!" << endl;  
    }  
};  
  
class Lion : public Animal {  
    public:  
    void roar() {  
        cout << "I can roar!" << endl;  
    }  
};
```

Select the correct option

☐	All of the given options
☒	Animal
☐	Dog
☐	Lion

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CS304P ALL QUIZZES 2023 SOLVED BY PRINCE ALVI

Question # 1 of 5 (**Start time: 11:31:14 PM, 05 June 2023**)

Which of the following operator cannot be overloaded by C++ language?

▶ Select the correct option

☐	>>
☐	<<
☐	.
☐	+=

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CS304P ALL QUIZZES 2023 SOLVED BY PRINCE ALVI

BC210418517: JAWERIA QASIM

CS304P - Object Oriented Programming (Practical) (Lab 6 Quiz)

Question # 2 of 5 (Start time: 11:33:24 PM, 05 June 2023)

What is the general syntax of operator overloading in C++?

Select the correct option

- | | |
|----------------------------------|--|
| ☐ | <code>return_type operator operator_symbol () { /*code */ }</code> |
| ☒ | <code>return_type operator operator_symbol (parameters) { /*code */ }</code> |
| ☐ | <code>className operator operator_symbol (parameters) { /*code */ }</code> |
| ☐ | <code>className operator operator_symbol () { /*code */ }</code> |

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CS304P ALL QUIZZES 2023 SOLVED BY PRINCE ALVI

BC210418517: JAWERIA QASIM

CS304P - Object Oriented Programming (Practical) (Lab 6 Quiz)

Question # 3 of 5 (Start time: 11:35:06 PM, 05 June 2023)

Which of the following concept compromised by using Friend Function?

Select the correct option

☐	Aggregation
☐	Association
☐	Inheritance
☒	Encapsulation

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CS304P ALL QUIZZES 2023 SOLVED BY PRINCE ALVI

BC210418517: JAWERIA QASIM

CS304P - Object Oriented Programming (Practical) (Lab 6 Quiz)

Question # 4 of 5 (Start time: 11:36:06 PM, 05 June 2023)

Suppose c1, c2, and c3 are the objects of the Complex class and we overloaded the + operator.

$c3 = c1 + c2;$

In this statement, _____ object will be calling the + operator.

Select the correct option

☐	c2
☐	c3
☒	c1
☐	c1 and c2

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CS304P ALL QUIZZES 2023 SOLVED BY PRINCE ALVI

BC210418517: JAWERIA QASIM

CS304P – Object Oriented Programming (Practical) (Lab 6 Quiz)

Question # 5 of 5 (**Start time: 11:37:18 PM, 05 June 2023**)

Which of the following operator can be overloaded?

Select the correct option

☒	[]
☐	.
☐	::
☐	'

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CS304P ALL QUIZZES 2023 SOLVED BY PRINCE ALVI

BC220213510: ADIL ALVI

CS304P - Object Oriented Programming (Practical) (Lab 6 Quiz)

Question # 1 of 5 (Start time: 11:41:26 PM, 05 June 2023)

Suppose c1, c2, and c3 are the objects of the Complex class and we overloaded the + operator.

c3 = c1 + c2;

In this statement, _____ object will be passed as argument when + operator is called.

Select the correct option

☒	c1
☐	c1 and c2
☐	c3
☐	c2

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BC220213510: ADIL ALVI

CS304P - Object Oriented Programming (Practical) (Lab 6 Quiz)

Question # 2 of 5 (**Start time: 11:42:29 PM, 05 June 2023**)

Which of the following will be affecting by the overloading an operator?

Select the correct option

☐	Arity of an operator
☒	None of the given options
☐	Associativity
☐	Precedence of an operator

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Consider the following code and choose the correct option.

```
int main(){  
    String str1("hayder");  
    str1 = str1;  
    return 0;  
}
```

Select the correct option

☒	Self-Assignment Problem
☐	Memory Loss Problem
☐	Dangling Pointer Problem
☐	Diamond Problem

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CS304P ALL QUIZZES 2023 SOLVED BY PRINCE ALVI

BC220213510: ADIL ALVI

CS304P - Object Oriented Programming (Practical) (Lab 6 Quiz)

Question # 5 of 5 (Start time: 11:45:02 PM, 05 June 2023)

_____ is the operator that cannot be overloaded.

Select the correct option

☒	?:
☐	-
☐	+
☐	+=

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CS304P ALL QUIZZES 2023 SOLVED BY PRINCE ALVI

BC220213511: WAJID ALVI

CS304P – Object Oriented Programming (Practical) (Lab 6 Quiz)

Question # 3 of 5 (**Start time: 11:48:13 PM, 05 June 2023**)

Which of the following function type can access the private data members of the class?

Select the correct option

☐	Any function outside the class
☐	Public function outside the class
☐	Non-member Function
☒	Friend Function

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CS304P ALL QUIZZES 2023 SOLVED BY PRINCE ALVI

BC220213511: WAJID ALVI

CS304P - Object Oriented Programming (Practical) (Lab 6 Quiz)

Question # 4 of 5 (**Start time: 11:49:06 PM, 05 June 2023**)

Suppose c1, c2, and c3 are the objects of the Complex class and we overloaded the + operator.

c3 = c1 + c2;

In this statement, _____ object will be passed as argument when + operator is called.

Select the correct option

☐	c1
☐	c2
☐	c3
☒	c1 and c2

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CS304P ALL QUIZZES 2023 SOLVED BY PRINCE ALVI

Question # 5 of 5 (Start time: 11:50:02 PM, 05 June 2023)

Consider the following program and choose the most appropriate concept implemented in the following program.

```
class shape
{
    public:
        void findArea() {};
};
class triangle: public shape
{
    public:
        void findArea() {};
};
class circle: public shape
{
    public:
        void findArea() {};
};
main()
{
    triangle t;
    t.findArea();
    circle c;
    c.findArea();
}
```

Select the correct option

☐	Association
☐	Aggregation
☐	Composition
☒	Polymorphism

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CS304P ALL QUIZZES 2023 SOLVED BY PRINCE ALVI

BC220208500: AMNA BIBI

CS304P - Object Oriented Programming (Practical) (General Quiz no #2(Graded))

Question # 1 of 10 (**Start time: 09:13:13 PM, 10 June 2023**)

_____ is the operator that cannot be overloaded.

Select the correct option

- | | |
|----------------------------------|----|
| ☐ | ?: |
| ☒ | += |
| ☐ | + |
| ☐ | - |

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CS304P ALL QUIZZES 2023 SOLVED BY PRINCE ALVI

BC220208500: AMNA BIBI

CS304P – Object Oriented Programming (Practical) (General Quiz no #2(Graded))

Question # 2 of 10 (Start time: 09:14:10 PM, 10 June 2023)

A class defines the cout and stream insertion operator, is called

Select the correct option

☒	ostream
☐	kstream
☐	fstream
☐	istream

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CS304P ALL QUIZZES 2023 SOLVED BY PRINCE ALVI

Question # 3 of 10 (**Start time: 09:14:47 PM, 10 June 2023**)

Following code is equivalent to which option.

```
class Shape
{
    string type;
};
```

Select the correct option

- | | |
|----------------------------------|--|
| ☐ | class Shape public: { string type; }; |
| ☒ | class Shape { public: string type; }; |
| ☐ | class Shape { private: string type; }; |
| ☐ | class Shape { protected: string type; }; |

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CS304P ALL QUIZZES 2023 SOLVED BY PRINCE ALVI

BC220208500: AMNA BIBI

CS304P – Object Oriented Programming (Practical) (General Quiz no #2(Graded))

Question # 4 of 10 (Start time: 09:16:52 PM, 10 June 2023)

Which of the following offers a programmer the facility of using a specific class object into other classes?

Select the correct option

☐	Polymorphism
☒	Inheritance
☐	Abstraction
☐	Composition

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CS304P ALL QUIZZES 2023 SOLVED BY PRINCE ALVI

Question # 5 of 10 (Start time: 09:17:39 PM, 10 June 2023)

Consider the following program and choose the most appropriate concept implemented in the following program.

```
class shape
{
    public:
        void findArea() {}
};
class triangle: public shape
{
    public:
        void findArea() {}
};
class circle: public shape
{
    public:
        void findArea() {}
};
main()
{
    triangle t;
    t.findArea();
    circle c;
    c.findArea();
}
```

Select the correct option

☐	Association
☐	Aggregation
☐	Composition
☒	Polymorphism

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CS304P ALL QUIZZES 2023 SOLVED BY PRINCE ALVI

BC220208500: AMNA BIBI

CS304P – Object Oriented Programming (Practical) (General Quiz no #2(Graded))

Question # 6 of 10 (Start time: 09:18:46 PM, 10 June 2023)

Subscript operator is overloaded as _____ of the class and there will be only one parameter with integer data type.

Select the correct option

☐	Static Function
☐	Member Function
☐	Overriding Function
☒	Overloading Operator

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CS304P ALL QUIZZES 2023 SOLVED BY PRINCE ALVI

BC220208500: AMNA BIBI

CS304P - Object Oriented Programming (Practical) (General Quiz no #2(Graded))

Question # 7 of 10 (Start time: 09:19:32 PM, 10 June 2023)

Which one is the best description of polymorphism?

Select the correct option

☒	It is the ability for many messages/data to be processed in many ways
☐	None of the given option
☐	It is the ability for undefined message/data to be processed in at least one way
☐	It is the ability for a message/data to be processed in more than one form

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BC220208500: AMNA BIBI

CS304P - Object Oriented Programming (Practical) (General Quiz no #2(Graded))

Question # 8 of 10 (**Start time: 09:20:35 PM, 10 June 2023**)

Which of the following operator can be overloaded?

Select the correct option

☐	::
☐	,
☒	[]
☐	.

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CS304P ALL QUIZZES 2023 SOLVED BY PRINCE ALVI

Question # 9 of 10 (Start time: 09:21:13 PM, 10 June 2023)

Which of the following is copy constructor of given code?

```
#include<iostream>

using namespace std;

class House
{
    int rooms;
public:
    House() { cout<< "Entering the house"<<endl;}
    House(int R) { rooms = R;}
    House(House &H) { rooms=H.rooms}
    ~House() { cout<< "Leaving the house"<<endl;}
};
```

Select the correct option

☐	~House()
☐	House(int R)
☒	House(House &H)
☐	House()

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BC220208500: AMNA BIBI

CS304P - Object Oriented Programming (Practical) (General Quiz no #2(Graded))

Question # 10 of 10 (**Start time: 09:22:40 PM, 10 June 2023**)

The relationship between container and contained objects is called _____.

Select the correct option

☐	Inheritance
☒	Composition
☐	Association
☐	Aggregation

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CS304P ALL QUIZZES 2023 SOLVED BY PRINCE ALVI

BC210418517: JAWERIA QASIM

CS304P - Object Oriented Programming (Practical) (General Quiz no #2(Graded))

Question # 1 of 10 (**Start time: 09:25:35 PM, 10 June 2023**)

Which of the following is true about the aggregation?

Select the correct option

- | | |
|----------------------------------|--|
| ☐ | Aggregation is a weak relationship. |
| ☒ | All of the given options |
| ☐ | The life of the sub-object is dependent on the life of the master class. |
| ☐ | The aggregation is a relationship between container and contained objects. |

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CS304P - Object Oriented Programming (Practical) (General Quiz no #2(Graded))

Question # 2 of 10 (**Start time: 09:26:20 PM, 10 June 2023**)

While operator overloading, when a binary operator is called _____ is passed as an argument.

Select the correct option

☒	Right hand Argument
☐	Pointer Argument
☐	Left hand Argument
☐	Dot Operator

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BC210418517: JAWERIA QASIM

CS304P - Object Oriented Programming (Practical) (General Quiz no #2(Graded))

Question # 3 of 10 (**Start time: 09:29:12 PM, 10 June 2023**)

What is the name of Base class in the line below?

```
class Truck : public Vehicle
```

Select the correct option

☐	Truck
☐	None of the given options
☐	Public
☒	Vehicle

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BC210418517: JAWERIA QASIM

CS304P - Object Oriented Programming (Practical) (General Quiz no #2(Graded))

Question # 4 of 10 (Start time: 09:29:50 PM, 10 June 2023)

Which of the following is insertion operator?

Select the correct option

☐	>>
☐	v
☐	^
☒	<<

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CS304P ALL QUIZZES 2023 SOLVED BY PRINCE ALVI

What will be the output of the following program?

```
#include<iostream>

using namespace std;

class FirstNumber
{ private:
    int x;
public:
    int y;
    FirstNumber () { x = 0; y = 10; }
};

class SecondNumber: public FirstNumber
{   int z;
public:
    int w;
    SecondNumber () : FirstNumber ()
    {
        z = 20;
        w = y + z;
        cout<<w;
    }
};

int main()
{
    SecondNumber Obj;
    return 0;
}
```

Select the correct option

☒	30
☐	20
☐	40

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BC210418517: JAWERIA QASIM

CS304P - Object Oriented Programming (Practical) (General Quiz no #2(Graded))

Question # 6 of 10 (**Start time: 09:31:41 PM, 10 June 2023**)

A class defines the cin and stream extraction operator, is called

Select the correct option

☒	istream
☐	kstream
☐	fstream
☐	ostream

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BC210418517: JAWERIA QASIM

CS304P - Object Oriented Programming (Practical) (General Quiz no #2(Graded))

Question # 7 of 10 (Start time: 09:32:26 PM, 10 June 2023)

The relationship between container and contained objects is called _____.

Select the correct option

☐	Aggregation
☐	Association
☐	Inheritance
☒	Composition

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CS304P ALL QUIZZES 2023 SOLVED BY PRINCE ALVI

BC210418517: JAWERIA QASIM

CS304P - Object Oriented Programming (Practical) (General Quiz no #2(Graded))

Question # 8 of 10 (**Start time: 09:33:31 PM, 10 June 2023**)

Which of the following concept compromised by using Friend Function?

Select the correct option

☐	Aggregation
☐	Inheritance
☒	Encapsulation
☐	Association

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CS304P ALL QUIZZES 2023 SOLVED BY PRINCE ALVI

Question # 9 of 10 (**Start time: 09:34:32 PM, 10 June 2023**)

Which of the following is used to get data from the console?

Select the correct option

- | | |
|----------------------------------|----------------------------|
| ☐ | Binary Operators |
| ☐ | Operator Overloading |
| ☒ | Stream Extraction operator |
| ☐ | Stream Insertion operator |

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BC220213510: ADIL ALVI

CS304P - Object Oriented Programming (Practical) (General Quiz no #2(Graded))

Question # 1 of 10 (**Start time: 09:53:54 PM, 10 June 2023**)

What is the name of Base class in the line below?

```
class Truck : public Vehicle
```

Select the correct option

☐	None of the given options
☐	Truck
☐	Public
☒	Vehicle

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BC220213510: ADIL ALVI

CS304P - Object Oriented Programming (Practical) (General Quiz no #2(Graded))

Question # 2 of 10 (**Start time: 09:55:28 PM, 10 June 2023**)

Which of the following concept compromised by using Friend Function?

Select the correct option

☐	Inheritance
☒	Encapsulation
☐	Aggregation
☐	Association

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CS304P ALL QUIZZES 2023 SOLVED BY PRINCE ALVI

Consider the following program and choose the most appropriate concept implemented in the following program.

```
class shape
{
    public:
        void findArea() {};
};

class triangle: public shape
{
    public:
        void findArea() {};
};

class circle: public shape
{
    public:
        void findArea() {};
};

main()
{
    triangle t;
    t.findArea();

    circle c;
    c.findArea();
}
```

Select the correct option

☒	Polymorphism
☐	Composition
☐	Aggregation
☐	Association

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CS304P ALL QUIZZES 2023 SOLVED BY PRINCE ALVI

Question # 4 of 10 (**Start time: 09:57:19 PM, 10 June 2023**)

Suppose c1, c2, and c3 are the objects of the Complex class and we overloaded the + operator.

c3 = c1 + c2;

In this statement, _____ object will be passed as argument when + operator is called.

Select the correct option

☐	c2
☐	c3
☐	c1 and c2
☒	c1

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CS304P ALL QUIZZES 2023 SOLVED BY PRINCE ALVI

BC220213510: ADIL ALVI

CS304P - Object Oriented Programming (Practical) (General Quiz no #2(Graded))

Question # 5 of 10 (**Start time: 09:58:23 PM, 10 June 2023**)

Which of the following is used to get data from the console?

Select the correct option

- | | |
|----------------------------------|----------------------------|
| ☐ | Operator Overloading |
| ☒ | Stream Extraction operator |
| ☐ | Stream Insertion operator |
| ☐ | Binary Operators |

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BC220213510: ADIL ALVI

CS304P - Object Oriented Programming (Practical) (General Quiz no #2(Graded))

Question # 6 of 10 (**Start time: 09:59:01 PM, 10 June 2023**)

The relationship between container and contained objects is called _____.

Select the correct option

☐	Inheritance
☐	Association
☒	Composition
☐	Aggregation

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CS304P ALL QUIZZES 2023 SOLVED BY PRINCE ALVI

CS304P - Object Oriented Programming (Practical) (General Quiz no #2(Graded))

Quiz Start Time: 09:53 PM, 10 Jun

Question # 7 of 10 (Start time: 09:59:38 PM, 10 June 2023)

Total A

Which of the following operator overloading declaration can be used for pre-increment operators implemented as friend non-member function of the class Complex?

Select the correct option

 Reload Math Equations

- | | |
|----------------------------------|--|
| ☐ | Complex & Complex::operator++(); |
| ☐ | Complex & operator ++ (); |
| ☐ | operator++(); |
| ☒ | friend Complex & operator++(Complex &); |

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CS304P ALL QUIZZES 2023 SOLVED BY PRINCE ALVI

What will be the output of the following program?

```
#include<iostream>

using namespace std;

class FirstNumber
{ private:
    int x;
public:
    int y;

    FirstNumber () { x = 0; y = 10; }
};

class SecondNumber: public FirstNumber
{
    int z;
public:
    int w;

    SecondNumber () : FirstNumber ()
    {
        z = 20;
        w = y + z;
        cout<<w;
    }
};

int main()
{
    SecondNumber Obj;
    return 0;
}
```

Select the correct option

☐	20
☒	30
☐	10
☐	40

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CS304P ALL QUIZZES 2023 SOLVED BY PRINCE ALVI

CS304P – Object Oriented Programming (Practical) (General Quiz no #2(Graded))

Question # 9 of 10 (**Start time: 10:01:48 PM, 10 June 2023**)

char & operator[] (int); shows _____.

Select the correct option

☒	Overloading of [] operator
☐	Overloading of & operator
☐	Overloading of int operator
☐	Overloading of char operator

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CS304P ALL QUIZZES 2023 SOLVED BY PRINCE ALVI

BC220213510: ADIL ALVI

CS304P - Object Oriented Programming (Practical) (General Quiz no #2(Graded))

Question # 10 of 10 (**Start time: 10:02:35 PM, 10 June 2023**)

In C++, if new operator is used, when is the constructor called?

Select the correct option

- | | |
|----------------------------------|--|
| ☐ | Depends on code |
| ☐ | Before the allocation of memory |
| ☒ | After the allocation of memory |
| ☐ | Constructor is called to allocate memory |

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CS304P ALL QUIZZES 2023 SOLVED BY PRINCE ALVI

BC220213511: WAJID ALVI

CS304P - Object Oriented Programming (Practical) (General Quiz no #2(Graded))

Question # 2 of 10 (Start time: 10:06:20 PM, 10 June 2023)

Function operator++() returns a reference so that the object can be used as an _____.

Select the correct option

☐	Xvalue
☒	Lvalue
☐	Both Rvalue & Xvalue
☐	Rvalue

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BC220213511: WAJID ALVI

CS304P - Object Oriented Programming (Practical) (General Quiz no #2(Graded))

Question # 4 of 10 (**Start time: 10:07:17 PM, 10 June 2023**)

Which of the following creates the strongest relationship between two objects?

Select the correct option

☐	Inheritance
☐	Association
☒	Composition
☐	Aggregation

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CS304P ALL QUIZZES 2023 SOLVED BY PRINCE ALVI

BC220213511: WAJID ALVI

CS304P - Object Oriented Programming (Practical) (General Quiz no #2(Graded))

Question # 5 of 10 (**Start time: 10:08:01 PM, 10 June 2023**)

Which of the following is insertion operator?

Select the correct option

☐	>>
☒	<<
☐	v
☐	^

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CS304P ALL QUIZZES 2023 SOLVED BY PRINCE ALVI

CS304P - Object Oriented Programming (Practical) (General Quiz no #2(Graded))

Question # 6 of 10 (**Start time: 10:08:42 PM, 10 June 2023**)

char & operator[](int); shows _____.

Select the correct option

☐	Overloading of int operator
☒	Overloading of [] operator
☐	Overloading of char operator
☐	Overloading of & operator

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CS304P ALL QUIZZES 2023 SOLVED BY PRINCE ALVI

BC220213511: WAJID ALVI

CS304P - Object Oriented Programming (Practical) (General Quiz no #2(Graded))

Question # 8 of 10 (Start time: 10:10:19 PM, 10 June 2023)

Consider the following code and choose the correct option.

```
int main(){  
    String str1("hayder");  
    str1 = str1;  
    return 0;  
}
```

Select the correct option

☐	Diamond Problem
☐	Memory Loss Problem
☒	Self-Assignment Problem
☐	Dangling Pointer Problem

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CS304P ALL QUIZZES 2023 SOLVED BY PRINCE ALVI

BC220213511: WAJID ALVI

CS304P - Object Oriented Programming (Practical) (General Quiz no #2(Graded))

Question # 9 of 10 (Start time: 10:11:04 PM, 10 June 2023)

The stream insertion and stream extraction operators are already over loaded for _____.

Select the correct option

☐	User Defined Data Type
☐	User Defined & Built-in Data Type
☒	Built-in Data Type
☐	None of the given options

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CS304P ALL QUIZZES 2023 SOLVED BY PRINCE ALVI

BC220213511: WAJID ALVI

CS304P - Object Oriented Programming (Practical) (General Quiz no #2(Graded))

Question # 10 of 10 (**Start time: 10:11:50 PM, 10 June 2023**)

A class defines the cin and stream extraction operator, is called

Select the correct option

☒	istream
☐	kstream
☐	ostream
☐	fstream

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CS304P ALL QUIZZES 2023 SOLVED BY PRINCE ALVI

What will be the output of the following program?

```
#include<iostream>

using namespace std;

class House{
private:
    int rooms;

public:
    House() { cout<<"Entering the house"<<endl;}
    House(int R) { rooms = R;}
    ~House() { cout<<"Leaving the house"<<endl;}
};

class Kitchen : public House
{ double size;
public:
    Kitchen() : House() { cout<<"Entering the kitchen";}
};

int main()
{
    Kitchen Obj;
    return 0;
}
```

Select the correct option

☐	Entering the kitchen
☐	Entering the house
☐	Leaving the house
☒	Entering the house
☐	Entering the kitchen
☐	Leaving the house

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CS304P ALL QUIZZES 2023 SOLVED BY PRINCE ALVI

Question # 2 of 5 (Start time: 09:17:13 PM, 07 July 2023)

Which of the following is copy constructor of given code?

```
#include<iostream>

using namespace std;

class House
{
    int rooms;

    public:
    House() { cout<< "Entering the house"<<endl;}
    House(int R) { rooms = R;}
    House(House &H) { rooms=H.rooms}
    ~House() { cout<< "Leaving the house"<<endl;}
};
```

Select the correct option

☒	House(House &H)
☐	~House()
☐	House()
☐	House(int R)

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CS304P ALL QUIZZES 2023 SOLVED BY PRINCE ALVI

What will be the output of the following program?

```
#include<iostream>
using namespace std;
class FirstNumber
{ private:
    int x;
public:
    int y;
    FirstNumber () { x = 0; y = 10; }
};
class SecondNumber: public FirstNumber
{
    int z;
public:
    int w;
    SecondNumber () : FirstNumber ()
    {
        z = 20;
        w = y + z;
        cout<<w;
    }
};
int main()
{
    SecondNumber Obj;
    return 0;
}
```

Select the correct option

☐	20
☐	10
☐	40
☒	30

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CS304P ALL QUIZZES 2023 SOLVED BY PRINCE ALVI

CS304P – Object Oriented Programming (Practical) (Lab 8 Quiz)

Question # 5 of 5 (Start time: 09:20:04 PM, 07 July 2023)

```
class A
{
    int x,y;
    public:
    int Add(int a,int b){return a+b;}
    void Add(int c,int d){return c+d;}
};
```

For the above class definition, which one is correct?

Select the correct option

☐	Function Add is overridden
☒	Function Add is overloaded
☐	Run-time error
☐	Compile-time error

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CS304P ALL QUIZZES 2023 SOLVED BY PRINCE ALVI

CS304P - Object Oriented Programming (Practical) (Lab 8 Quiz)

Question # 4 of 5 (**Start time: 09:19:15 PM, 07 July 2023**)

What is the name of Base class in the line below?

```
class Truck : public Vehicle
```

Select the correct option

☐	Truck
☐	None of the given options
☒	Vehicle
☐	Public

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CS304P ALL QUIZZES 2023 SOLVED BY PRINCE ALVI

What will be the output of the following program?

```
#include<iostream>

using namespace std;

class House{
private:
int rooms;

public:
House() { cout<<"Entering the house"<<endl;}
House(int R) { rooms = R;}
~House() { cout<<"Leaving the house"<<endl;}
};

class Kitchen : public House
{ double size;
public:
Kitchen() : House() { cout<<"Entering the kitchen*";}
};

int main()
{
Kitchen Obj;
return 0;
```

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CS304P ALL QUIZZES 2023 SOLVED BY PRINCE ALVI

Select the correct option

☐	Entering the house Leaving the house Entering the kitchen
☐	Leaving the house Entering the house Entering the kitchen
☐	Entering the kitchen Entering the house Leaving the house
☒	Entering the house Entering the kitchen Leaving the house

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CS304P ALL QUIZZES 2023 SOLVED BY PRINCE ALVI

CS304P - Object Oriented Programming (Practical) (General Quiz no#3)

Question # 1 of 10 (Start time: 11:24:21 PM, 13 July 2023)

Consider the following code and choose the correct option.

```
int main(){  
    String str1("hayder");  
    str1 = str1;  
    return 0;  
}
```

Select the correct option

☐	Dangling Pointer Problem
☐	Diamond Problem
☐	Memory Loss Problem
☒	Self-Assignment Problem

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CS304P ALL QUIZZES 2023 SOLVED BY PRINCE ALVI

CS304P - Object Oriented Programming (Practical) (General Quiz no#3)

Question # 2 of 10 (Start time: 11:25:28 PM, 13 July 2023)

char & operator[](int); shows -----

Select the correct option

- | | |
|---|------------------------------|
| ☒ | Overloading of [] operator |
| ☐ | Overloading of char operator |
| ☐ | Overloading of & operator |
| ☐ | Overloading of int operator |

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CS304P ALL QUIZZES 2023 SOLVED BY PRINCE ALVI

CS304P - Object Oriented Programming (Practical) (General Quiz no#3)

Question # 4 of 10 (**Start time: 11:26:54 PM, 13 July 2023**)

Suppose c1, c2, and c3 are the objects of the Complex class and we overloaded the + operator.

c3 = c1 + c2;

In this statement, _____ object will be calling the + operator.

Select the correct option

☐	c1 and c2
☒	c1
☐	c2
☐	c3

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CS304P - Object Oriented Programming (Practical) (General Quiz no#3)

Question # 6 of 10 (Start time: 11:28:33 PM, 13 July 2023)

Which of the following operator cannot be overloaded by C++ language?

Select the correct option

☐	<<
☒	*
☐	>>
☐	+=

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CS304P ALL QUIZZES 2023 SOLVED BY PRINCE ALVI

CS304P - Object Oriented Programming (Practical) (General Quiz no#

Question # 10 of 10 (Start time: 11:33:39 PM, 13 July 2023)

Following code is equivalent to which option.

```
class Shape
{
    string type;
};
```

Select the correct option

- | | |
|----------------------------------|--|
| ☐ | class Shape { protected: string type; }; |
| ☐ | class Shape { public: string type; }; |
| ☒ | class Shape { private: string type; }; |
| ☐ | class Shape public: { string type; }; |

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CS304P ALL QUIZZES 2023 SOLVED BY PRINCE ALVI

CS304P - Object Oriented Programming (Practical) (General Quiz no#3)

Question # 1 of 10 (Start time: 11:36:19 PM, 13 July 2023)

Which of the following operator overloading declaration can be used for pre-increment operators implemented as member function of the class Complex?

Select the correct option

- | | |
|----------------------------------|----------------------------------|
| ☐ | None of the given options |
| ☐ | Complex & operator ++ (); |
| ☐ | Complex && operator ++ (); |
| ☒ | Complex & Complex::operator++(); |

CS304P - Object Oriented Programming (Practical) (General Quiz no#3)

Question # 2 of 10 (Start time: 11:37:56 PM, 13 July 2023)

Which of the following is used to get data from the console?

Select the correct option

- | | |
|----------------------------------|----------------------------|
| ☒ | Stream Extraction operator |
| ☐ | Operator Overloading |
| ☐ | Binary Operators |
| ☐ | Stream Insertion operator |

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CS304P - Object Oriented Programming (Practical) (General Quiz no#3)

Question # 3 of 10 (Start time: 11:39:26 PM, 13 July 2023)

Subscript operator is overloaded as _____ of the class and there will be only one parameter with integer data type.

Select the correct option

☐	Member Function
☐	Overriding Function
☐	Static Function
☒	Overloading Operator

CS304P - Object Oriented Programming (Practical) (General Quiz no#3)

Question # 4 of 10 (Start time: 11:40:29 PM, 13 July 2023)

Subscript operator is overloaded as member function of the class and there will be only one parameter with _____ data type.

Select the correct option

☐	float
☐	char
☒	int
☐	string

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CS304P - Object Oriented Programming (Practical) (General Quiz no#3)

Question # 5 of 10 (Start time: 11:41:13 PM, 13 July 2023)

While operator overloading, when a binary operator is called _____ is passed as an argument.

Select the correct option

☐	Dot Operator
☒	Right hand Argument
☐	Pointer Argument
☐	Left hand Argument

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CS304P - Object Oriented Programming (Practical) (General Quiz no#3)

Question # 6 of 10 (Start time: 11:41:57 PM, 13 July 2023)

```
class A
{
    int x,y;
    public:
    int Add(int a,int b){return a+b;}
    void Add(int c,int d){return c+d;}
};
```

For the above class definition, which one is correct?

Select the correct option

☐	Run-time error
☐	Function Add is overridden
☐	Function Add is overloaded
☒	Compile-time error

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CS304P - Object Oriented Programming (Practical) (General Quiz no#3)

Question # 8 of 10 (Start time: 11:43:40 PM, 13 July 2023)

What is the general syntax of operator overloading in C++?

Select the correct option

- | | |
|----------------------------------|--|
| ☐ | <code>className operator operator_symbol () { /*code */ }</code> |
| ☒ | <code>return_type operator operator_symbol (parameters) { /*code */ }</code> |
| ☐ | <code>return_type operator operator_symbol () { /*code */ }</code> |
| ☐ | <code>className operator operator_symbol (parameters) { /*code */ }</code> |

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CS304P - Object Oriented Programming (Practical) (General Quiz no#3)

Question # 9 of 10 (**Start time: 11:45:12 PM, 13 July 2023**)

Which of the following is insertion operator?

Select the correct option

☐	^
☒	<<
☐	>>
☐	v

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CS304P - Object Oriented Programming (Practical) (General Quiz no#3)

Question # 10 of 10 (Start time: 11:45:59 PM, 13 July 2023)

Function operator++() returns a reference so that the object can be used as an _____.

Select the correct option

☐	Xvalue
☐	Both Rvalue & Xvalue
☒	Lvalue
☐	Rvalue

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CS304P - Object Oriented Programming (Practical) (General Quiz no#3)

Question # 1 of 10 (Start time: 11:48:23 PM, 13 July 2023)

Which one is the best description of polymorphism?

Select the correct option

- | | |
|----------------------------------|--|
| ☐ | None of the given option |
| ☐ | It is the ability for a message/data to be processed in more than one form |
| ☐ | It is the ability for undefined message/data to be processed in at least one way |
| ☒ | It is the ability for many messages/data to be processed in many ways |

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CS304P – Object Oriented Programming (Practical) (General Quiz no#3)

Question # 2 of 10 (Start time: 11:49:55 PM, 13 July 2023)

A class defines the cin and stream extraction operator, is called

Select the correct option

☐	ostream
☐	kstream
☒	istream
☐	fstream

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CS304P - Object Oriented Programming (Practical) (General Quiz no#3)

Question # 3 of 10 (Start time: 11:51:00 PM, 13 July 2023)

The stream insertion and stream extraction operators are already over loaded for _____.

Select the correct option

☐	User Defined Data Type
☒	Built-in Data Type
☐	User Defined & Built-in Data Type
☐	None of the given options

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CS304P - Object Oriented Programming (Practical) (General Quiz no#3)

Question # 4 of 10 (Start time: 11:51:54 PM, 13 July 2023)

Which of the following statement is dealing with stream extraction operator?

Select the correct option

☐	<code>cout >> j;</code>
☐	<code>cout << "i= " << i << "\n";</code>
☐	<code>cin << i;</code>
☒	<code>cin >> i >> j;</code>

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CS304P - Object Oriented Programming (Practical) (General Quiz no#3)

Question # 5 of 10 (Start time: 11:52:49 PM, 13 July 2023)

Function operator++() returns a reference so that the object can be used as an _____.

Select the correct option

☐	Both Rvalue & Xvalue
☐	Xvalue
☐	Rvalue
☒	Lvalue

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CS304P ALL QUIZZES 2023 SOLVED BY PRINCE ALVI

Which of the following is copy constructor of given code?

```
#include<iostream>

using namespace std;

class House
{
    int rooms;

    public:

    House() { cout<< "Entering the house"<<endl;}

    House(int R) { rooms = R;}

    House(House &H) { rooms=H.rooms}

    ~House() { cout<< "Leaving the house"<<endl;}

};
```

Select the correct option

☐	House()
☐	House(int R)
☒	House(House &H)
☐	~House()

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CS304P - Object Oriented Programming (Practical) (General Quiz no#3)

Question # 7 of 10 (Start time: 11:54:36 PM, 13 July 2023)

Consider the following statement and what is the best statement about this line of code:

```
char & operator()(int);
```

Select the correct option

☒	Overloading of () operator
☐	Overloading of int operator
☐	Overloading of char operator
☐	Overloading of & operator

CS304P - Object Oriented Programming (Practical) (General Quiz no#3)

Question # 8 of 10 (Start time: 11:55:25 PM, 13 July 2023)

Subscript operator is overloaded as _____ of the class and there will be only one parameter with integer data type.

Select the correct option

☐	Static Function
☐	Overriding Function
☒	Overloading Operator
☐	Member Function

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CS304P - Object Oriented Programming (Practical) (General Quiz no#3)

Question # 9 of 10 (Start time: 11:56:15 PM, 13 July 2023)

Which of the following operator overloading declaration can be used for pre-increment operators implemented as friend non-member function of the class Complex?

Select the correct option

- | | |
|----------------------------------|--|
| ☐ | Complex & Complex::operator++(); |
| ☐ | Complex & operator ++ (); |
| ☐ | operator++(); |
| ☒ | friend Complex & operator++(Complex &); |

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CS304P ALL QUIZZES 2023 SOLVED BY PRINCE ALVI

CS304P - Object Oriented Programming (Practical) (Lab 9 Quiz)

Question # 1 of 5 (Start time: 10:44:27 PM, 15 July 2023)

```
class A {  
    public:  
    int Test(int x) {return x*x;}  
    int Test(int x,int y) {return x*y;}  
};  
  
class B : public A {  
    public:  
    int Test(int x) { return x*x*x;}  
};
```

In the above class, the method Test is_____.

Select the correct option

☐	None of the given options
☐	Both
☒	Overloaded
☐	Overridden

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CS304P ALL QUIZZES 2023 SOLVED BY PRINCE ALVI

CS304P – Object Oriented Programming (Practical) (Lab 9 Quiz)

Question # 2 of 5 (Start time: 10:46:26 PM, 15 July 2023)

If the data members of an object have been dynamically allocated then it is required to do _____.

Select the correct option

☒	Deep copy
☐	None of the given options
☐	Shallow copy
☐	Both of the given options

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CS304P ALL QUIZZES 2023 SOLVED BY PRINCE ALVI

CS304P - Object Oriented Programming (Practical) (Lab 9 Quiz)

Question # 3 of 5 (Start time: 10:48:01 PM, 15 July 2023)

```
class Shape {  
protected:  
double area;  
};  
class Rectangle : public Shape {  
private:  
double length , width;  
};
```

The base class member area in derived class Rectangle will be_____.

Select the correct option

☐	public
☐	private
☒	protected
☐	None of the given options

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CS304P - Object Oriented Programming (Practical) (Lab 9 Quiz)

Question # 4 of 5 (Start time: 10:48:56 PM, 15 July 2023)

Which of the following Copy Constructor declaration could alter its own value accidentally?

Select the correct option

☐	Point : Point(const Point &p)
☒	Point : Point(Point &p)
☐	None of the given options
☐	Point : Point(const Point p)

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CS304P - Object Oriented Programming (Practical) (Lab 9 Quiz)

Question # 5 of 5 (Start time: 10:50:45 PM, 15 July 2023)

```
class A
{ int x; };

class B: A
{ int y; };

int main()
{
    A ObjA;
    B ObjB;
    A & refA;
    refA =ObjB;
    return 0;
}
```

refA is an alias of object _____.

Select the correct option

☐	None of the given options
☒	Both A and B
☐	B
☐	A

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CS304P - Object Oriented Programming (Practical) (Lab 9 Quiz)

Question # 5 of 5 (Start time: 11:15:32 PM, 15 July 2023)

In C++ classes, how many access specifiers are there?

Select the correct option

- | | |
|----------------------------------|---------------------------|
| ☐ | 2 |
| ☐ | 4 |
| ☐ | None of the given options |
| ☒ | 3 |

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CS304P - Object Oriented Programming (Practical) (Lab 9 Quiz)

Question # 1 of 5 (Start time: 11:02:08 PM, 15 July 2023)

For the given class definition, which one is correct?

```
#include<iostream>

using namespace std;

class A{

int x,y;

public:

int Add(int a,int b){return a+b;}

int Add(int c){return c;}

};
```

Select the correct option

☐	Function Add is overridden
☐	None of the given options
☐	Function Add has an error
☒	Function Add is overloaded

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CS304P – Object Oriented Programming (Practical) (Lab 9 Quiz)

Question # 5 of 5 (Start time: 11:06:31 PM, 15 July 2023)

```
class A
{ int x; };

class B: A
{ int y; };

int main()
{
    A ObjA;
    B ObjB;
    A & refA;
    refA =ObjB;
    return 0;
}
```

refA is an alias of object _____

Select the correct option

☐	Both A and B
☒	A
☐	B
☐	None of the given options

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CS304P ALL QUIZZES 2023 SOLVED BY PRINCE ALVI

CS304P - Object Oriented Programming (Practical) (Lab 9 Quiz)

Question # 1 of 5 (Start time: 11:11:17 PM, 15 July 2023)

In inheritance, polymorphism is done by _____.

Select the correct option

- | | |
|----------------------------------|---------------------------|
| ☐ | Copy Constructor |
| ☐ | None of the given options |
| ☐ | Method Overloading |
| ☒ | Method Overriding |

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CS304P ALL QUIZZES 2023 SOLVED BY PRINCE ALVI

Question # 4 of 10 (Start time: 09:24:36 PM, 19 July 2023)

```
class A { ----};  
class B : private A {----};  
class C : public B : private A {----};
```

Which of the above class hierarchy declaration will generate a compile error?

Select the correct option

☐	class A
☐	none of the given options
☐	class B : private A
☒	class C : public B : private A

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CS304P ALL QUIZZES 2023 SOLVED BY PRINCE ALVI

For the given class definition, which one is correct?

```
#include<iostream>

using namespace std;

class A{
int x,y;
public:
int Add(int a,int b){return a+b;}
int Add(int c){return c;}
};
```

Select the correct option

☒	Function Add is overloaded
☐	None of the given options
☐	Function Add is overridden
☐	Function Add has an error

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CS304P ALL QUIZZES 2023 SOLVED BY PRINCE ALVI

CS304P - Object Oriented Programming (Practical) (General Quiz no #4(Graded))

Question # 7 of 10 (Start time: 09:26:51 PM, 19 July 2023)

----- Binding means that target function for a call is selected at compile time.

Select the correct option

☐	Dynamic
☐	None of the given options
☒	Static
☐	Both Static and Dynamic

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CS304P ALL QUIZZES 2023 SOLVED BY PRINCE ALVI

CS304P - Object Oriented Programming (Practical) (General Quiz no #4(Graded))

Question # 9 of 10 (Start time: 09:28:14 PM, 19 July 2023)

Which of the following members of base class can be accessed in the derived class?

Select the correct option

☐	Both Public and Private
☒	Both Protected and Public
☐	All (Public, Protected, and Private)
☐	Both Protected and Private

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CS304P ALL QUIZZES 2023 SOLVED BY PRINCE ALVI

CS304P - Object Oriented Programming (Practical) (General Quiz no #4(Graded))

Question # 10 of 10 (Start time: 09:29:46 PM, 19 July 2023)

The mechanism of selecting function at run time according to the nature of calling object is called _____.

Select the correct option

☐	virtual binding
☒	dynamic binding
☐	hybrid binding
☐	static binding

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CS304P - Object Oriented Programming (Practical) (General Quiz no #4(Graded))

Question # 3 of 10 (Start time: 09:38:49 PM, 19 July 2023)

Consider the code below,

```
class class1{ public: void func1(); };
```

```
class class2 : public class1 { };
```

Function func1 of class1 is _____ in class2.

Select the correct option

☐	Private
☒	Public
☐	Protected
☐	Hidden

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```
class Shape {
```

```
protected:
```

```
double area;
```

```
};
```

```
class Rectangle : public Shape {
```

```
private:
```

```
double length, width;
```

```
};
```

The base class member area in derived class Rectangle will be_____.

Select the correct option

☒	protected
☐	private
☐	public
☐	None of the given options

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CS304P - Object Oriented Programming (Practical) (Lab 10 Quiz)

Question # 1 of 5 (**Start time: 09:22:35 PM, 20 July 2023**)

----- Binding means that target function for a call is selected at compile time.

Select the correct option

☒	Static
☐	Both Static and Dynamic
☐	Dynamic
☐	None of the given options

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CS304P - Object Oriented Programming (Practical) (Lab 10 Quiz)

Question # 5 of 5 (Start time: 09:25:10 PM, 20 July 2023)

Consider the code below,

```
class class1{ public: void func1();};
```

```
class class2 : public class1 {};
```

Function func1 of class1 is _____ in class2.

Select the correct option

☐	Private
☐	Protected
☐	Hidden
☒	Public

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CS304P - Object Oriented Programming (Practical) (Lab 11 Quiz)

Question # 1 of 5 (**Start time: 08:27:23 PM, 21 July 2023**)

Consider the following C++ code and identify pure virtual functions.

```
class Shape {  
    virtual void draw() = 0;  
    virtual double getArea(){}  
};
```

Select the correct option

☐	class Shape
☐	virtual void draw() = 0;
☐	virtual double getArea()
☒	None of the given options

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CS304P - Object Oriented Programming (Practical) (Lab 11 Quiz)

Question # 2 of 5 (Start time: 08:28:50 PM, 21 July 2023)

In _____, there is exactly one copy of the anonymous base class object.

Select the correct option

☐	Hybrid inheritance
☐	Simple Inheritance
☐	Multiple Inheritance
☒	Virtual inheritance

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CS304P - Object Oriented Programming (Practical) (Lab 11 Quiz)

Question # 3 of 5 (**Start time: 08:29:34 PM, 21 July 2023**)

Complete the following code to create virtual table:

```
Point p1( 10, 10 ), p2( 30, 30 );
```

```
Shape* _____;
```

```
pShape = new Line( p1, p2 );
```

Select the correct option

☒	Shape
☐	pointer
☐	pShape
☐	new line

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CS304P - Object Oriented Programming (Practical) (Lab 11 Quiz)

Question # 5 of 5 (**Start time: 08:33:34 PM, 21 July 2023**)

Which problem may arise if we use abstract class functions for polymorphism?

Select the correct option

- | | |
|----------------------------------|--|
| ☒ | All the derived classes must implement the undefined functions |
| ☐ | All classes are converted as abstract class |
| ☐ | Derived class must be of abstract type |
| ☐ | Derived classes can't redefine the function |

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What is the output of the following program?

```
#include<iostream>
using namespace std;
class student
{
    public : int marks;
    void disp()
    {
        cout<<"Its base class";
    }
};
class topper:public student
{
    public :
    void disp()
    {
        cout<<"Its derived class";
    }
};
main()
{ student s; topper t;
  s.disp();
  t.disp();
}
```

Select the correct option

- | | |
|----------------------------------|----------------------------------|
| ☒ | Its base class Its derived class |
| ☐ | Its derived class Its base class |
| ☐ | Its derived classIts base class |
| ☐ | Its base classIts derived class |

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CS304P - Object Oriented Programming (Practical) (Lab 11 Quiz)

Question # 5 of 5 (**Start time: 08:33:34 PM, 21 July 2023**)

Which problem may arise if we use abstract class functions for polymorphism?

Select the correct option

- | | |
|----------------------------------|--|
| ☒ | All the derived classes must implement the undefined functions |
| ☐ | All classes are converted as abstract class |
| ☐ | Derived class must be of abstract type |
| ☐ | Derived classes can't redefine the function |

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