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

- a) Complex & operator ++ ();
- b) Complex & Complex::operator++();
- c) None of the given options
- d) Complex && operator ++ ();

Correct option: b) Complex & Complex::operator++();

2. A class that defines the cin and stream extraction operator is called:

- a) kstream
- b) kstreamfstream
- c) ostream
- d) istream

Correct option: d) istream

3. While operator overloading, the binary operator is always called with reference to the _____.

- a) Left-hand argument
- b) Right-hand argument
- c) Pointer argument
- d) Dot operator

Correct option: a) Left-hand argument

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

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

```
int main() {
 triangle t;
 t.findArea();
 circle c;
 c.findArea();
}
...

```

a) Aggregation

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b) Association

c) Composition

d) Polymorphism

Correct option: d) Polymorphism

5. Following code is equivalent to which option:

```
```cpp  
class Shape {  
protected:  
    string type;  
};  
```
```

a) class Shape {

string type;

};

b) class Shape public: {

string type;

};

c) class Shape {

private: string type;

};

d) class Shape {

protected: string type;

};

Correct option: d) class Shape {

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```
protected: string type;
```

```
};
```

6. Consider the following statement. What is the best statement about this line of code: ``char & operator()(int);``

- a) Overloading of int operator
- b) Overloading of & operator
- c) Overloading of char operator
- d) Overloading of () operator

Correct option: d) Overloading of () operator

7. Suppose c1, c2, and c3 are objects of the Complex class, and we overloaded the + operator. ``c3 = c1 + c2;`` In this statement, which object will be passed as an argument when the + operator is called?

- a) c1
- b) c2
- c) c1 and c2
- d) c3

Correct option: c) c1 and c2

8. Which one is the best description of polymorphism?

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

Correct option: d) It is the ability for a message/data to be processed in more than one form

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9. The subscript operator is overloaded as a member function of the class, and there will be only one parameter with \_\_\_\_\_ data type.

- a) char
- b) string
- c) float
- d) int

Correct option: d) int

10. Which of the following will be affected by overloading an operator?

- a) Associativity
- b) Arity of an operator
- c) None of the given options
- d) Precedence of an operator

Correct option: b) Arity of an operator

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