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Exam : CPA-21-02

**Title : CPA – C++ Certified
Associate Programmer**

Version : DEMO

1.What will the variable "age" be in class B?

```
class A {  
    int x;  
    protected:  
    int y;  
    public:  
    int age;  
    A () { age=5; };  
};  
class B : public A {  
    string name;  
    public:  
    B () { name="Bob"; };  
    void Print() {  
        cout << name << age;  
    }  
};
```

- A.public
- B.private
- C.protected
- D.None of these

Answer: A

2.What happens when you attempt to compile and run the following code?

```
#include <iostream>  
#include <string>  
using namespace std;  
class complex{  
    double re, im;  
    public:  
    complex() : re(1),im(0.4) {}  
    complex operator?(complex &t);  
    void Print() { cout << re << " " << im; }  
};  
complex complex::operator? (complex &t){  
    complex temp;  
    temp.re = this?>re ? t.re;  
    temp.im = this?>im ? t.im;  
    return temp;  
}  
int main(){  
    complex c1,c2,c3;  
    c3 = c1 ? c2;  
    c3.Print();
```

```
}
```

A.It prints: 1 0.4
B.It prints: 2 0.8
C.It prints: 0 0
D.It prints: 1 0.8

Answer: C

3.What happens when you attempt to compile and run the following code?

```
#include <iostream>
using namespace std;
class complex{
double re;
double im;
public:
complex() : re(0),im(0) {}
complex(double x) { re=x,im=x;};
complex(double x,double y) { re=x,im=y;}
void print() { cout << re << " " << im;}
};
int main(){
complex c1;
c1 = 3.0;
c1.print();
return 0;
}
```

A.It prints: 0 0
B.It prints: 1 1
C.It prints: 3 3
D.Compilation error

Answer: C

4.What happens when you attempt to compile and run the following code?

```
#include <iostream>
using namespace std;
void fun(int);
int main()
{
int a=0;
fun(a);
return 0;
}
void fun(int n)
{
if(n < 2)
```

```
{  
fun(++n);  
cout << n;  
}  
}
```

- A.It prints: 21
- B.It prints: 012
- C.It prints: 0
- D.None of these

Answer: A

5.What happens when you attempt to compile and run the following code?

```
#include <iostream>  
using namespace std;  
int s(int n);  
int main()  
{  
int a;  
a = 3;  
cout << s(a);  
return 0;
```

```
}  
int s(int n)  
{  
if(n == 0) return 1;  
return s(n?1)*n;  
}
```

- A.It prints: 4
- B.It prints: 6
- C.It prints: 3
- D.It prints: 0

Answer: B