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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**