RollNo:

Time: 40 min

Issue Date: 29-May-2015 Marks: 20

Objective:

 The purpose of this quiz is to focus on the very basic fundamental concepts learned so far in previous lectures.

Question: Give output of the following code segments.

(2, 2, 3, 3, 3, 3, 4)

Part-A

```
enum day {sunday = 1, monday, tuesday = 5,
                                              Answer:
    wednesday, thursday = 10, friday,
saturday};
int main()
{
    cout<<sunday<<monday<<tuesday<<
wednesday<<thursday<<friday<<saturday;
    return 0;
}
```

Part-B

```
enum state {working, failed};
                                                Answer:
enum result {failed, passed};
int main()
{
    cout<<working;</pre>
    return 0;
}
```

Part-C

```
class Base
                                                Answer:
public:
    virtual void show() { cout<<" In Base</pre>
\n"; }
};
class Derived: public Base
public:
    void show() { cout<<"In Derived \n"; }</pre>
};
int main(void)
    Base *bp = new Derived;
    bp->show();
    Base &br = *bp;
    br.show();
    return 0;
```



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Part-D

```
class Base
                                                 Answer:
public:
    virtual void show() { cout<<" In Base</pre>
\n"; }
};
class Derived: public Base
public:
    void show() { cout<<"In Derived \n"; }</pre>
};
int main(void)
    Base *bp, b;
    Derived d;
    bp = \&d;
    bp->show();
    bp = \&b;
    bp->show();
    return 0;
```

Part-E

```
class Base {
                                                   Answer:
private:
    ~Base() {}
                                                       A. Line Base b will produce an syntax error
};
int main() {
                                                       B. Line new Base will produce a syntax error
    Base b;
    new Base;
                                                       C. Both Lines Base b and new Base will
    return 0;
                                                          produce syntax error
}
                                                       D. Code if fine
```

Part-F

```
class X
                                              Answer:
public:
    virtual void fun();
};
class Y
{
public:
    void fun();
};
int main()
    int a = sizeof(X), b = sizeof(Y);
    if (a == b) cout << "a == b";
    else if (a > b) cout << "a > b";
    else cout << "a < b";
    return 0;
```



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Part-G

```
class A
                                                 Answer:
{
public:
    A()
    {cout<<"\nA()";}
    A(int)
    {cout<<"\nA(int)";}
    int a;
    void f() {cout<<"\nA::f";}</pre>
    virtual void z()=0;
    virtual void x()=0;
};
class B: virtual public A
public:
    B()
    {cout<<"\nB()";}
    B(int)
    {cout<<"\nB(int)";}
    int b;
    void g() {cout<<"\nB::f";}</pre>
    virtual void z() {cout<<"\nB::z";}</pre>
};
class C: virtual public A
public:
    C():A(12)
    {cout<<"\nC()";}
    C(int)
    {cout<<"\nC(int)";}
    int c;
    void h() {cout<<"\nC::h";}</pre>
    virtual void x() {cout<<"\nC::x";}</pre>
class D: public B, public C, virtual A
{
public:
    D()
    {cout<<"\nD()";}
    D(int):A(11)
    {cout<<"\nD(int)";}
    int d;
    void i() {cout<<"\nD::i";}</pre>
};
int main()
{
    D obj;
    D obj2(34);
    return 1;
```