

NAME: \_\_\_\_\_ ID: \_\_\_\_\_

**Q.1: Write the output of following code.**

```
#include<iostream>
using namespace std;
class A
{
    public:
    A()
    {
        cout<<"A";
    }
};
class B: public A
{
    public:
    B()
    {
        cout<<"B";
    }
};
int main()
{
    A a;
    B b;
    A a1;
    return 0;
}
Output:
```

**Q.2: Differentiate virtual and pure virtual function.****Q.3: Write output of following code.**

```
#include<iostream>
using namespace std;
class A
{
    public:
    virtual void fun()=0;
};
class B: public A
{
    public:
    B()
    {
        cout<<"B";
    }
};
int main()
{
    A a;
    B b;
    b.fun();
    return 0;
}
Output:
```

**Q.4: Give 2 scenarios where we would need to make abstract class.**