	Which of the following is a valid class declaration? a) class A { int x; }; b) class B { }; missics c) public class A { } for syntex d) object A { int x; }; no keywold, abject
2.	The data members and functions of a class in C++ are by default a) protected b) private c) public d) public & protected
3.	Wrapping data and its related functionality into a single entity is known asa) Abstraction b) Encapsulation c) Polymorphism d) Modularity
4.	What does polymorphism in OOPs mean? a) Concept of allowing overriding of functions b) Concept of hiding data c) Concept of keeping things in different modules/files d) Concept of wrapping things into a single unit
5.	Which concept allows you to reuse the written code? a) Encapsulation b) Abstraction c) Inheritance d) Polymorphism

6. What will be the output of the following C++ code? #include <iostream> using namespace std; class A { int a; A() { a = 5; **}**; int main() { A obj 💥; cout<< obj.a;</pre> Ta is privok } a) 0

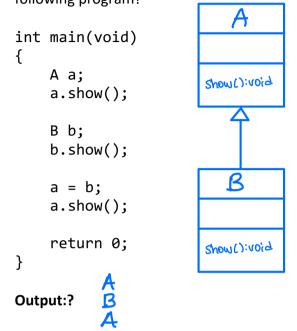
- c) Compile-time exception
- d) Run-time exception

b) 5

7. What is the output of the following program?

```
#include<iostream>
using namespace std;
class A
{
    public:
                                        Show():void
         void show()
         {
             cout<<"A"<<endl;</pre>
};
                                           B
class B: public A
    public:
                                        Show():void
         void show()
         {
             cout<<"B"<<endl;</pre>
         }
};
int main(void)
    A a;
    a.show();
    B b;
    b.show();
    return 0;
}
Output: ? A
```

8. Considering the same class A and B definitions in question 7, what will be the output of the following program?



9. Considering the same class A and B definitions in question 7, what will be the output of the following program?

```
int main(void)
{
    A a;
    a.show();
    A* aptr = new B;
    aptr->show();
                  STATIC BINDING
    return 0;
                  COMPILER BINDS
}
                   FUNCTION AT
                   COMPILE TIME
Output: ? A
                   BECAUSE Show()
                   IS NOT virtual AND
                    apti is a A pointer.
                    COMPILER WILL
                    BIND Show! FUNCTION
                     IN A CLASS
```

10. Note the update int virtual function definition update in class A. What is the output of the same program given in question 9?

```
#include<iostream>
using namespace std;
class A
{
    public:
        virtual void show()
         {
             cout<<"A"<<endl;</pre>
         }
};
class B: public A
{
    public:
         void show()
         {
             cout<<"B"<<endl;</pre>
         }
};
int main(void)
{
    A a;
    a.show();
    A* aptr = new B;
    aptr->show();
                     DANAMIC BINDING
    return 0;
                     BINDS AT CUN-TIME
}
                     BECAUSE Show() is virtual and overfiden in
Output: ?
                      B.
```