1.What will be the output of the program :

```
class A {
        int number = 5
}
class B extends A{
        int number = 10
}
class C{
        public static void main(String args[]){
                A a = new B()
                system.out.println(a.number);
        }
}
```

A.Compile Time error

B.Run Time Error

C.5

D.10

2.What is the difference between abstract class and interface

3.Explain data hiding with an example

4.What is the use of constructors

5.What will be the output of following program:

```
Class A {
        A(int a){
        System.out.print.ln("Hi I am class A with int value as : " + a)
        }
        A(String a){
        System.out.print.ln("Hi I am class A with string value as : " + a)
        }
}
```

```
Class B {
        public static void main(String args){
        A a = new A();
        A a1 = new A("Hello");
        }
}
```

Options :

a) .Runtime Error and Hi I am class A with string value as hello

b) .Compile Time error and Hi I am class A with string value as hello

c) .Runtime Error and Hi I am class A with int value as hello

d).Compile Time error and Hi I am class A int string value as hello

e).No error with Hi I am class A with string value as hello

6. Difference between this and super

7.What will be the output of the following program :

```
Interface A {
        public void display(int a);
}
Interface B {
        public void display(int b);
}
Class c implements A,B{
        public void display(int b){
                System.out.println(5);
        }
}
```

```
Class D{
Public static void main(String args[]){
        C c = new C();
        c.display(5);
        }
}
```

Options :

a) 5

b) CompileTimeError

c)Run Time Error

d) None of the above

8.Mention all the uses of the final keyword

9.What will be the output of the following program :

```
Class A {
        final int number = 5
}
Class B extends A {
        public static void main(String args[]){
        System.out.println(number++);
        }
}
```

Options:

1.6

2.10

3.Compile time Exception

4.Run time Exception

10.Protected Members are accessible outside the package

1.True

2.False

11.How many total objects will be created :

String A = “abc”;

String B = “abc”;

String C = new String(“abc”);

String D = new String (“abc”);

Options :

1. Two
2. Three
3. Four
4. None of the above

12. What will be the output of the following code?

```
String a=”Hello”;

String b=”Hello”;

String c=new String(“Hello”);

        if(a==b){

                System.out.println(“Same reference “);

        }

        if(a==c){

                System.out.println(“Same Reference of A and C “);

        }else {

                System.out.println(“Not Same Reference “);

        }
```

13. What will be the output of the following code?

```
String s1=”Summer” ;

String s2=s1+” Spring” ;

s2.concat(“Fall”);

s1=s1+”Winter”);

System.out.println(s1+ “     “+s2);
```

14. What will be the output of the following code?

```
String x = "abc";
String y = x.concat("def").toUpperCase().replace('C','x');
System.out.println(y);
```

15. What is the difference between string stringbuilder and stringbuffer ?

16. Following will compile or not - if yes/no explain the reason.

```
final class A
{
}
class B extends A
{
}
```

17. What will be the output of the following code?

```
class A {
}

class B extends A {

}

class C extends A, B {

}
```

18. What is the output:

```
class A {
        A()
        {
        System.out.println(“A Class Default Constructor Call “);
        }
}

class B {
        B()
        {
                System.out.println(“B class Default Constructor Call “);
        }

}
class Test{
        public static void main(String args[])
        {
                B obj=new B();
        }
}
```

19. What is the output:

```
class A {
 A(int a) {
        System.out.println(“A class Parameterized Constructor Call “);
 }
}
```

```
class B extends A {
        B()     {
        System.out.println(“B Class Default Constructor Call “);
        }
}

class Test {
        public static void main(String args[]) {
          B obj=new B();
        }
}
```

20. What is this , Overloading or Overriding?

```
class A {
                void show()
                {
                        System.out.println(“ A class Show Call “);
                }
}
class B extends A       {
                void show(int i)
                {
                        System.out.println(“B Class show call “);
                }
}
```

21. What will be the output of the following code?

```
class A
        {
                private final void show()
                {
                        System.out.println(" A class Show Call ");
                }
        }

class B extends A       {
                void show()
                {
                        System.out.println("B Class show call ");
                }
}
```

21. What will be the output of the following code?

```
class A{
        A()
        {
                this(10);
                System.out.println("A Class Default Constructor ");
        }
        A(int a)
        {
                System.out.println("A class Parameterized Constructor ");
        }
}
```

```
class B extends A{
        B()
        {
                System.out.println(“B Class Default Constructor “);
        }
        public static void main(String args[])
        {
                B obj=new B();
        }
}
```

22. what will be the output of the following code?

```
interface X {
        void show();
}

interface Y implements X {
        void disp();
}

class Z extends Y
{
        public void show()
        {
        System.out.println(“ Inside show “);

        }
}
```