

Unit III

1. Which of these method of class String is used to extract a single character from a String.
a. CharAt() b. indexOf c. toString d. **charAt()**

2. What is the output?

```
final class A{
    int i;
}
class B extends A{
    int j;
    System.out.println(j + " " + i);
}
class Sample{
    public static void main(String args[])
    {
        B b = new B();
    }
}
```

- a. **Compilation Error** b. Runtime Error c. No Error d. None of these
3. Which of these is supported by method overriding in java?
a. Abstraction b. Encapsulation c. **Polymorphism** d. None of these
4. Which of these is the correct a constructor having no parameters, of superclass A by subclass B?
a. Super.A() b. **super()** c. this() d. super.A()
5. Which of these keywords can be used to prevent Method Overriding?
a. Static b. **final** c. const d. protected
6. Which of these class is used to create a string with mutable sequence.
a. String b. StringBuilder c. StringBuffer d. **both b and c**

7. What will be the output?

```
class Test1{
    final int a = 10;
}
class Test2 extends Test1{
    final int a = 20;
}
public class Sample extends Test2{
    final int a = 30;

    public static void main(String args[]){
        Sample s = new Test1();
        System.out.print(s.a);
    }
}
```

- a. **Compilation Error** b. 30 c. 20 d. None of these
8. What is the output?

```

class A {
    int x;
    public void display() {
        System.out.println(x);
    }
}

class B extends A {
    int y;
    public void display() {
        System.out.println(y);
    }
}

public class Sample{
    public static void main(String args[]){
        B obj = new B();
        obj.x=111;
        obj.y=222;
        obj.display();
    }
}

```

- a. 222 b. 111 c. 0 d. Compilation Error.
9. What is the order of execution of the constructors in java?
- a. Super class to Subclass. b. Either of the order.
c. Subclass to Super Class. d. None of these
10. If Class B is sub classed from Class A then which is the correct syntax.
- a. Class B: A{} b. Class B extends A{}
c. Class B extends Class A{} d. Class B implements A{}