5. Java : OOPS	
What feature allows different methods to have the same name and arguments type, but Pick <b>ONE</b> option	a different implementation is called?
overloading	
overriding	
Java does not permit methods with same name and type signature	
None of the above	

#### 6. Java - output

Given the following code, what's the output?

```
public class Element {
        private final int id;
        public Element(int id) {
                this.id = id;
        public void updateId(int id) {
                this.id = id;
        public int getId() {
                return id;
        public void setId(int id) {
                this.id = id;
        public static void main(String[] args) {
                Element elem = new Element(5);
                elem.updateId(10);
                System.out.println(elem.getId());
        }
Pick ONE option
     Compilation fails
     Exception is thrown at runtime
     10
```

#### 7. Java hierarchy - output

```
Given the following code, what's the output?
public class Comics {
         public class Calvin {
         private Hobbes hobbes;
         public String getValue() {
    return hobbes.getValue();
public class Hobbes {
         private String value;
         public String getValue() {
   value = "Calvin"; //Line 25
   return value;
public class Main {
         public static void main(String[] args) {
    Comics comic = new Comics();
    comic.getOne();
       }
Pick ONE option
 The code run with no output
 Calvin"
    An exception is thrown at runtime
 Compilations fails at line 25
```

### 8. Java varargs I

```
Given the following code, what's the output?
public class StringVarArgsTest {
        public void execute(int[]... values) {
                for (int[] val : values) {
                        System.out.print(val[0]);
        public static void main(String[] args) {
                int[] x = { 1, 2, 3 };
                int[] y = { 7, 8, 9 };
                StringVarArgsTest strTest = new StringVarArgsTest();
                strTest.execute(x, y);
        }
Pick ONE option
     Compilations fails
     Exception on runtime
     17
      123
```

# 9. Java varargs II

Given the following code, what's the output? public class StringVarArgsTest { public void execute(String... values) { System.out.print(values[0] + " 1"); public void execute(String value) { System.out.print(value + " 2"); } public static void main(String[] args) { StringVarArgsTest strTest = new StringVarArgsTest(); strTest.execute("alpha"); } Pick ONE option alpha 1 alpha 2 alpha 2alpha 1 alpha 1alpha 2

### 10. Java polymorphism

Father dau = (Daughter) d;

Chose the option (that replaces [INSERT LINE HERE]) that will raise a java.lang.ClassCastException?

# 11. Java concat

Given the following code, what's the output?

```
public class StringConcatTest {
    public static void main(String[] args) {
        String strTest = "987";
        strTest += "12";
        strTest.concat("34");
        strTest = strTest.concat("56");
        System.out.println(strTest);
    }
}
```

Pick **ONE** option

98712		
-------	--	--

9871234	

```
12. Java - output II
Given the following code, what's the output?
abstract class A {
        public A() {
                 System.out.print("A");
public class {\bf B} extends {\bf A}\{
        public B() {
                 System.out.print("B");
public class C extends B {
        public C() {
                 System.out.print("C");
public class Test {
        public static void main(String[] args) {
                new C();
Pick ONE option
      C
      ABC
      BC
      CBA
     Compilation fails
```

#### 13. Java polymorphism II

```
Given the following code, what's the output?
public class Lamba {
         public String getValue() {
    return "Lamba";
public class Alpha extends Lamba {
        public String getValue() {
    return "Alpha";
public class Beta extends Alpha {
         public String getValue() {
    return super.getValue() + "Beta";
         public static void main(String[] args) {
                new Beta().checkValues();
         private void checkValues() {
                 Alpha alpha = new Beta();
Lamba lamba = new Alpha();
                 Lamba lb = new Beta();
                 System.out.print(alpha.getValue()+"-"+lamba.getValue()+"-"+lb.getValue());
         }
Pick ONE option
    ) AlphaBeta-Alpha-AlphaBeta
 Alpha-Lamba-Lamba
 Alpha-Lamba-AlphaBeta
    ) AlphaBeta-Alpha-Lamba
 Compilations fails
```