

MID Revision

Question 01

Examine the below code.

```
1 package test;
2
3 class Target{
4     public String name ="hello";
5 }
6
```

What can directly access and change the value of the variable name?

1. Any class
2. Only Target class
3. Any class in the test package
4. Any class that extends Target
5. Only within the Target class

Question 02

Examine the below code.

```
1 class A{
2     public static void parse(String str){
3         try{
4             float f = Float.parseFloat(str);
5         }catch(NumberFormatException e){
6             f = 0;
7         }finally{
8             System.out.println(f);
9         }
10    }
11    public static void main(String args[]){
12        parse("invalid");
13    }
14 }
15
```

What is the result?

1. 0.0
2. Compilation fails
3. A ParseException is thrown by the parse method at runtime
4. A NumberFormatException is thrown by the parse method at runtime
5. 0

Question 03

Examine the below code.

```
1 interface TestA{  
2     String doSomething();  
3 }  
4 public class Test implements TestA{  
5     public Test() {  
6         doSomething();  
7     }  
8     public void doSomething(){  
9         System.out.println("Doing something");  
10    }  
11 }
```

What is the result?

1. Doing something
2. An exception will be thrown
3. Compile error at line number 5
4. Compile error at line number 6
5. Compile error at line number 8

Question 4

Examine the below code.

```
1 public abstract class Shape{  
2     private int x;  
3     private int y;  
4     public abstract void draw();  
5     public void setAnchor(int x, int y){  
6         this.x =x;  
7         this.y =y;  
8     }  
9 }
```

Which class / es use the Shape class correctly?

1. public class Circle implements Shape{
 private int radius;
}
2. public abstract class Circle extends Shape{
 private int radius;
}
3. public abstract class Circle extends Shape{
 private int radius;
 public void draw();
}
4. public class Circle extends Shape{
 private int radius;
 public void draw(){}
}
5. public abstract class Circle extends Shape{
 private int radius;
 public void draw(){}
 abstract public void draw1();
}

Question 5

Examine the below code.

```
1 class Atom{
2     Atom(){
3         System.out.println("atom");
4     }
5 }
6 class Rock extends Atom{
7     Rock(String type){
8         System.out.println(type);
9     }
10}
11 public class Mountain extends Rock{
12     Mountain(){
13         super("granite");
14         new Rock("granite") ;
15     }
16     public static void main(String args[]){
17         new Mountain();
18     }
19 }
```

What is the result?

1. Compilation fails
2. atom granite
3. atom granite granite
4. atom granite atom granite
5. granite granite

Question 06

Which man class properly represents the relationship “man has a best friend who is a Dog” ?

1. Class Man extends Dog{}
2. Class Man{ private Dog bestFriend; }
3. Class Man implements Dog{}
4. Class Man{ private BestFriend dog; }
5. Class Dog extends Man{}

Question 07

Examine the below code.

```
1 class Money{
2     private String country ="Canada";
3     public String getC(){
4         return country;
5     }
6 }
7 class Yen extends Money{
8     public String getC(){
9         return super.country;
10    }
11 }
12 public class Euro extends Money{
13     public String getC(int x){
14         return super.getC();
15     }
16     public static void main(String args[]){
17         System.out.println(new Yen().getC());
18         System.out.println(new Euro().getC());
19     }
20 }
```

What is the result?

1. Compilation fails at line number 9
2. Compilation fails at line number 14
3. Compilation fails at line number 17
4. Compilation fails at line number 18
5. Canada Canada

Question 08

Examine the below code.

```
1 public class TestString1{
2     public static void main(String args[]){
3         String str ="420";
4         str +=42;
5         System.out.println(str);
6     }
7 }
```

What is the result?

1. 420
2. 462
3. str
4. 42042
5. 42420

