Started on	Friday, 28 October 2022, 10:30 AM
State	Finished
Completed on	Friday, 28 October 2022, 10:40 AM
Time taken	10 mins
Grade	**3.00** out of 10.00 (**30**%)

Question **1**

Correct

Mark 0.50 out of 0.50

What will be the output of the following code?

```
public class Toy{
    public void play(){
        System.out.println("play-");
    }
    public void finalizer(){
        System.out.println("clean-");
    }
    public static void main(String[] fun){
        Toy car = new Toy();
        car.play();
        Toy doll = new Toy();
        doll.play();
    }
}
```

- a. play-
- b. play-clean-play-
- c. play-play- ✔
- d. play-play-clean-clean-

Your answer is correct.

The correct answer is:
play-play-

Question **2**

Correct

Mark 0.50 out of 0.50

What will be the output of the following code?

```
class A
{
    static int x = 1234;
    static class B
    {
        static int y = x++;

        static class C
        {
            static int z = y++;
        }
    }
}

public class Driver
{
    public static void main(String[] args)
    {
        System.out.println(A.B.C.z);
    }
}
```

- a. 1235
- b. 1234 ✔
- c. 1236
- d. Compile time error

Your answer is correct.

The correct answer is:
1234

Question **3**

Correct

Mark 0.50 out of 0.50

What will be the output of the following code?

```
class A
{
    static String s = "AAA";
    class B
    {
        String s = "BBB";
        void methodB()
        {
            System.out.println(s);
        }
    }
}

public class MainClass
{
    public static void main(String[] args)
    {
        A a = new A();
        System.out.println(a.s);

        A.B b = a.new B();
        System.out.println(b.s);
        b.methodB();
    }
}
```

a. AAA
BBB
AAA

b. Compilation Error

c. BBB
AAA
AAA

d. AAA
BBB
BBB ✔

Your answer is correct.

The correct answer is:
AAA
BBB
BBB

Question **4**

Not answered

Marked out of 0.50

What will be the output of the following code?

```
interface A {
    int z = 2;
}

interface B extends A {
    int z = 3;
}

class C implements B {
    int z = 4;

    @Override
    public String toString() {
        return Integer.toString(z);
    }
}

public class Main {
    public static void main(String[] args) {
        Object o = new C();
        A a = new C();
        B b = new C();
        C c = new C();

        System.out.print(o);
        System.out.print(a.z);
        System.out.print(b.z);
        System.out.print(c.z);
    }
}
```

a. 4444

b. 4224

c. 4234

d. 4434

e. 4233

Your answer is incorrect.

The correct answer is:
4234

Question **5**

Correct

Mark 0.50 out of 0.50

If a declaration of a member in inner class has the same name as that in the outer class, then _____ enclosing scope.

- a. Inner declaration shadows outer declaration in ✔
- b. Declaration gives compile time error in
- c. Outer declaration shadows inner declaration in
- d. Declaration gives run time error in

Your answer is correct.

The correct answer is:
Inner declaration shadows outer declaration in

Question **6**

Incorrect

Mark -0.50 out of 0.50

Suppose A is an abstract class, B is a concrete subclass of A, and both A and B have a default constructor. Which of the following is correct?

1. A a = new A();
2. A a = new B();
3. B b = new A();
4. B b = new B();

- a. 1 and 2
- b. 2 and 4
- c. 1 and 3 ✖
- d. 3 and 4

Your answer is incorrect.

The correct answer is:
2 and 4

Question **7**

Not answered

Marked out of 0.50

What will be the output of the following code?

```
class One implements Runnable
{
    public void run()
    {
        System.out.print(Thread.currentThread().getName());
    }
}
class Two implements Runnable
{
    public void run()
    {
        new One().run();
        new Thread(new One(),"asdfg2").run();
        new Thread(new One(),"asdfg3").start();
    }
}
public class Three
{
    public static void main (String[] args)
    {
        new Thread(new Two(),"asdfg1").start();
    }
}
```

- a. asdfg2asdfg2asdfg3
- b. asdfg1asdfg1asdfg3
- c. asdfg2asdfg1asdfg3
- d. asdfg1asdfg1asdfg2
- e. asdfg1asdfg2asdfg3

Your answer is incorrect.

The correct answer is:
asdfg1asdfg1asdfg3

Question **8**

Correct

Mark 0.50 out of 0.50

What will be the output of the following code?

```
public class Test {
    public int getNumber() {
        return 40;
    }
    public abstract class Test1 {
        public int getNumber() {
            return 30;
        }
    }
    public static void main (String [] args) {
        Test t = new Test() {
            public int getNumber() {
                return 20;
            }
        };
        Test.Test1 f = t.new Test1() {
            public int getNumber() {
                return 50;
            }
        };
        System.out.println(f.getNumber() + " " + t.getNumber());
    }
}
```

a. 30, 40

b. 30, 20

c. 50, 20 ✔

d. 50, 40

Your answer is correct.

The correct answer is:
50, 20

Question **9**

Incorrect

Mark -0.50 out of 0.50

Is the below program written correctly? If yes, what will be the output?

```
class One {
    {
        System.out.println("ONE");
    }
    class Two {
        {
            System.out.println("TWO");
        }
    }
    static {
        System.out.println("THREE");
    }
    static class Three {
        {
            System.out.println("FOUR");
        }
        static {
            System.out.println("FIVE");
        }
    }
}
public class MainClass {
    public static void main(String[] args) {
        One one = new One();
        One.Two two = one.new Two();
        One.Three three = new One.Three();
    }
}
```

a. The program is incorrect

b. Yes, the program is correct. Output will be:

ONE
TWO
THREE
FOUR
FIVE
FOUR
THREE
TWO
ONE

c. Yes, the program is correct. Output will be:

THREE
ONE
TWO
FIVE
FOUR

d. Yes, the program is correct. Output will be: ✖

THREE
FOUR
FIVE
ONE
TWO

Your answer is incorrect.

The correct answer is:
Yes, the program is correct. Output will be:

THREE
ONE
TWO
FIVE
FOUR

Question **10**

Correct

Mark 0.50 out of 0.50

For the code given below, which of the statements will result in an error?

```
public class Outer
{
    static int x = 100 ;
    private int y = 101;
    private static int z = 102;
    static class inner
    {
        void foo()
        {
            System.out.println(x);          // Statement 1
            System.out.println(y);          // Statement 2
            System.out.println(z);          // Statement 3
        }
    }
    public static void main(String args[])
    {
        inner. foo();

    }
}
```

a. Statement 1

b. Statement 2 ✔

c. Statement 3

d. Statements 2 and 3

Your answer is correct.

The correct answer is:
Statement 2

Question **11**

Correct

Mark 0.50 out of 0.50

```
class Foo
{
    class Bar{ }
}
class Test
{
    public static void main (String [] args)
    {
        Foo f = new Foo();
        /* Line 10: Missing statement ? */
    }
}
```

which statement, inserted at line 10, creates an instance of Bar?

- a. Foo.Bar b = f.new Bar();
- b. Foo.Bar b = new Foo.Bar();
- c. Bar b = new f.Bar();
- d. Bar b = f.new Bar();

Your answer is correct.

The correct answer is:
Foo.Bar b = f.new Bar();

Question **12**

Incorrect

Mark -0.50 out of 0.50

What will be the output of the following code?

```
class A {
    Object obj1 = new B();

    public static class B {
        Object obj2 = new A().new C();
    }

    class C {
        public C() {
            display();
        }

        private void display() {
            System.out.println("Hello");
        }
    }
}

public class Driver {
    public static void main(String[] args) {
        new A();
    }
}
```

- a. Blank Screen or No output
- b. Compilation Error
- c. Hello ✖
- d. Runtime Error

Your answer is incorrect.

The correct answer is:
Runtime Error

Question **13**

Correct

Mark 0.50 out of 0.50

What will the output of the following code?

```
abstract class AbstractTest {
    public int getNum() {
        return 45;
    }
    public abstract class Bar {
        public int getNum() {
            return 38;
        }
    }
}
public class Main{
    public static void main (String [] args) {
        AbstractTest t = new AbstractTest() {
            public int getNum() {
                return 22;
            }
        };
        AbstractTest.Bar f = t.new Bar() {
            public int getNum() {
                return 57;
            }
        };

        System.out.println(f.getNum() + " " + t.getNum());
    }
}
```

- a. 45 57
- b. 57 45
- c. 45 38
- d. 22 57
- e. 57 38
- f. 57 22 ✔

Your answer is correct.

The correct answer is:
57 22

Question **14**

Not answered

Marked out of 0.50

Which of the following statements is/are false about an anonymous inner class?[MSQ]

A. It can extend exactly one class and can implement multiple interfaces.

B. It can extend exactly one class or implement exactly one interface.

C. It can extend exactly one class and implement exactly one interface.

D. It can implement multiple interfaces regardless of whether it also extends a class.

- a. A,B,C
- b. A,B,D
- c. A,C,D
- d. B,C,D

Your answer is incorrect.

The correct answer is:
A,C,D

Question **15**

Correct

Mark 0.50 out of 0.50

What will be the output of the following code?

```
public class OOPSTest
{

    public static void main (String [] args)
    {
        class OOPS
        {
            public String name; /* Line 8 */
            public OOPS(String s)
            {
                name = s; /* Line 11 */
            }
        } /* class OOPS ends */
        Object obj = new OOPS("Hello_Class"); /* Line 14 */
        OOPS o = (OOPS) obj; /* Line 15 */
        System.out.println(o.name);
    }
} /* class OOPSTest ends */
```

- a. Compilation fails because of an error on line 14
- b. Compilation fails because of an error on line 15
- c. Compilation fails because of an error on line 8
- d. An exception occurs at runtime at line 11
- e. It prints "Hello_Class" ✔

Your answer is correct.

The correct answer is:
It prints "Hello_Class"

Question **16**

Correct

Mark 0.50 out of 0.50

What will be the output of the following code?

```
public class Test {
    public static void main(String[] args) {
        String str = null;
        switch (str) { // #1
            case "null":
                System.out.println("null string"); // #2
                break;
        }
    }
}
```

- a. This program prints the following: null string
- b. This program results in a compiler error in statement #2
- c. This program results in throwing a NullPointerException ✔
- d. This program results in a compiler error in statement #1

Your answer is correct.

The correct answer is:
This program results in throwing a NullPointerException

Question **17**

Incorrect

Mark -0.50 out of 0.50

What will happen, if we try to run the following code?

```
//File Probability.java

package LabQuestion;
public class Probability
{
  public static int probabilityCorrect()
  {
    // returns the probability of you getting the answer correct
    return ((int) (Math.random() * 100));
  }
}
```

```
//LabQuestion.Java
import LabQuestion.*; //Always Think Twice before you import
public class Question {
    public static void main(String[] args) {
        System.out.println(Probability.probabilityCorrect());
    }
}
```

- a. The program will not compile (Compile time error) ✖
- b. The program will compile and run.
- c. The program will compile but won't run. (Runtime error)
- d. The program will compile and rub but no output.

Your answer is incorrect.

The correct answer is:
The program will compile and run.

Question **18**

Not answered

Marked out of 0.50

What will be the output of the following code?

```
public class Test {
    public static void main(String[] args) {
        String s = new String("5");
        System.out.println(1 + 10 + s + 1 + 10);
    }
}
```

- a. 1105110
- b. 27
- c. 115110
- d. 11511

Your answer is incorrect.

The correct answer is:
115110

Question **19**

Not answered

Marked out of 0.50

What will be the output of the following code?

```
interface Interface
{
    int val = 42;
}
abstract class AbstractClass
{
    private int val = 24;
}
class ConcreteClass extends AbstractClass implements Interface
{
    int getVal()
    {
        return val;
    }
}
public class Driver
{
    public static void main(String[] args)
    {
        ConcreteClass c = new ConcreteClass();
        System.out.println(c.getVal());
    }
}
```

- a. Runtime Error
- b. 24
- c. Compile Time Error
- d. 42

Your answer is incorrect.

The correct answer is:
42

Question **20**

Not answered

Marked out of 0.50

How to create object of the inner class?

- a. OuterClass.InnerClass = outerObject.new InnerClass();
- b. InnerClass innerObject = outerObject.new InnerClass();
- c. OuterClass.InnerClass innerObject = outerObject.new InnerClass();
- d. OuterClass.InnerClass innerObject = new InnerClass();

Your answer is incorrect.

The correct answer is:
OuterClass.InnerClass innerObject = outerObject.new InnerClass();

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