Started on	Thursday, 21 November 2024, 8:10 PM
State	Finished
Completed on	Thursday, 21 November 2024, 8:38 PM
Time taken	27 mins 59 secs
Marks	4.00/13.00
Grade	3.08 out of 10.00 (30.77%)

```
Question 1
Correct
Mark 1.00 out of 1.00
```

```
What will the following code print?
public class Array
{
    public static void main(String[] args)
        int[] numbers = { 1, 2, 3, 4, 5};
for (int i = 0; i < 5; i++)</pre>
           System.out.println(numbers[i-1]);
}

    □ a. It will raise an ArrayIndexOutofBoundsException 
    ✓
0 b. 2
      3
      4
      5
O c. 1
      2
      3
      4
      5
      Exception!
Od. It will print some numbers and output an ArrayIndexOutofBoundsException
e. 0
      1
      2
      3
      4
      5
```

Your answer is correct.

The correct answer is:

It will raise an ArrayIndexOutofBoundsException

Question 2
Incorrect
Mark 0.00 out of 1.00
Which of these statements are true?
Please select 2 options.
Select one or more:
lacksquare Instance methods may access local variables of static methods. $old x$
A class may contain both static and non-static variables and both static and non-static methods.
All methods in a class are implicitly passed a 'this' parameter when called.
☐ Each object of a class has its own copy of each non-static member variable.
A static method can call other non-static methods in the same class by using the 'this' keyword.
Your answer is incorrect.
The correct answers are: A class may contain both static and non-static variables and both static and non-
static methods. , Each object of a class has its own copy of each non-static member variable.
Question 3
Question <b>3</b> Correct
Correct
Correct Mark 1.00 out of 1.00
Correct
Correct Mark 1.00 out of 1.00
Correct Mark 1.00 out of 1.00   What is the value of $z$ after the following code segment? int $z=5$ ;
Correct  Mark 1.00 out of 1.00  What is the value of $z$ after the following code segment?  int $z=5$ ;  if(++ $z$ > 5    ++ $z$ > 6) $z$ ++;
Correct  Mark 1.00 out of 1.00  What is the value of z after the following code segment?  int z=5;  if(++z > 5    ++z > 6) z++;  Select one:
Correct  Mark 1.00 out of 1.00  What is the value of z after the following code segment?  int z=5;  if(++z > 5    ++z > 6) z++;  Select one:  6
Correct  Mark 1.00 out of 1.00  What is the value of z after the following code segment?  int z=5;  if (++z > 5    ++z > 6) z++;  Select one:  6  8
Correct  Mark 1.00 out of 1.00  What is the value of z after the following code segment?  int z=5;  if(++z > 5    ++z > 6) z++;  Select one:  6  8  7 ✓
Correct  Mark 1.00 out of 1.00  What is the value of z after the following code segment?  int z=5;  if (++z > 5    ++z > 6) z++;  Select one:  6  8
Correct  Mark 1.00 out of 1.00  What is the value of z after the following code segment?  int z=5;  if(++z > 5    ++z > 6) z++;  Select one:  6  8  7 ✓
Correct  Mark 1.00 out of 1.00  What is the value of z after the following code segment?  int z=5;  if(++z > 5    ++z > 6) z++;  Select one:  6  8  7 ✓
Correct Mark 1.00 out of 1.00  What is the value of z after the following code segment? int z=5; if(++z > 5    ++z > 6) z++;  Select one: 6 8 7 7 5

```
Question 4
Correct
Mark 1.00 out of 1.00
```

Which of the following lines can be inserted at // line I to make the program run?

```
// line 1
public class TestClass{
    public static void main(String[] args) {
        PrintWriter pw = new PrintWriter(System.out);
        OutputStreamWriter osw = new OutputStreamWriter(System.out);
        pw.print("hello");
    }
}
```

Assume that PrintWriter and OutputStreamWriter are valid classes in java.io package.

Select one:

- include java.lang.System;
- import java.io.\*; 

  ✓
- import java.lang.\*;
- import java.io.OutputStreamWriter;
- include java.io.\*;

Your answer is correct.

The correct answer is: import java.io.\*;

```
Question 5
Incorrect
Mark 0.00 out of 1.00
```

Given the following code, what is output to the screen:

```
class X{
    private int x;

X(int x) {
        x=x;
    }
    public int getX() {
        return x;
    }
}

public class Test {
    public static void main(String[] args) {
        X x = new X(3);
        System.out.println(x.getX());
    }
}
```

Select one:

- A compiler error.
- 3 x
- A runtime error
- x

Your answer is incorrect.

The correct answer is: 0

```
Question 6
Correct
Mark 1.00 out of 1.00
```

```
What will the following code print?
```

```
public class MyClass {
   public static void main(String[] args) {
      int i = 10_000_000;
      double j = 2_3.0_2;
      System.out.println(""+ i + " " + j);
   }
}
```

- a. 10000000 23.02 

  ✓
- o b. 10E6 23
- c. 10000023.02
- d. 10000000 23
- e. Compile error

Your answer is correct.

The correct answer is: 10000000 23.02

## Question **7**Incorrect

Mark 0.00 out of 1.00

Which of these statements regarding local variables is true?

## Select one:

- O Local variables can only be declared as *public*.
- O You cannot specify visibility (i.e. *public*, *private*) of local variables.
- Local variables always have package accessibility.
- Local variables can be declared as private. X
- There are no local variables in Java.

Your answer is incorrect.

The correct answer is: You cannot specify visibility (i.e. public, private) of local variables.

Question 8
Incorrect
Mark 0.00 out of 1.00

Which of the following is true about the default constructor?

Select one:

- It is provided by the compiler only if the class and any of its super classes does not define any constructor
- It is always public
- O To define a default constructor, you must use the default keyword
- A default constructor is used to return a default value
- It takes no arguments

Your answer is incorrect.

The correct answer is: It takes no arguments

```
Question 9
Incorrect
Mark 0.00 out of 1.00
```

What is output to the screen after the following code segment is executed:

```
public class Test {
    public static void main(String args[]) {
        int y=0;
        int x=9;

        if( (x > 5) | (++y > 1) ){}
        if( (x > 19) & (++y > 1) ){}
        System.out.println(y);
    }
}
```

Select one:

- 0 2
- О у
- 1 x
- 0
- A compiler error.

Your answer is incorrect.

The correct answer is: 2

```
Question 10
Incorrect
Mark 0.00 out of 1.00
```

What will the following method print?

```
public class CounterStatic {
    private static int count;

public CounterStatic() {
        count++;
    }

public int getCount() {
        return count;
    }

public static int getCounter() {
        return count;
    }

public static void main(String[] args) {
        CounterStatic counter1 = new CounterStatic();
        CounterStatic counter2 = new CounterStatic();
        CounterStatic counter3 = new CounterStatic();
        System.out.println(counter1.getCount());
        System.out.println(CounterStatic.getCounter());
}
```

- a. 3
- b. 1 x
  - 3
- O c. 1
- d. 3
  - 3

Your answer is incorrect.

The correct answer is:

3

3

```
Question 11
Incorrect
Mark 0.00 out of 1.00
```

```
Which of the following is/are valid Customer objects?
public class Customer {
     private int accountNo;
     private String name;
     private double balance;
     private static int count;
     public Customer() {
         count++;
     public Customer(String name, int accountNo, double balance) {
         this.name = name;
         this.accountNo = accountNo;
         this.balance = balance;
         count++;
     }
Select one or more:
a. Customer customerTree = new Customer("Thiago", "345", 100);
☑ b. Customer customerOne = new Customer(); 
c. Customer customerFour = new Customer("James", 123, 100, 0);
d. Customer customerTwo = new Customer("Kate", 345, 0);
Your answer is incorrect.
```

The correct answers are:

Customer customerOne = new Customer();,

Customer customerTwo = new Customer("Kate", 345, 0);

Question 12	
Incorrect	
Mark 0.00 out of 1.00	
Which statements concerning conversion are true?	
Please select 4 options.	
Select one or more:	
lacksquare Conversion from char to long does not need a cast. $lacksquare$	
☑ Conversion from short to char needs a  ✓ The reverse is also true. Because their ranges are not compatible.	
<ul><li>Conversion from int to float X</li><li>No. Because a float can hold any value of int. Note that opposite is not true because of loss of precision.</li></ul>	
oxdot Conversion from byte, char or short to int, long or float does not need a cast.	
lacksquare Conversion from byte to short does not need a cast. $lacksquare$	
Your answer is incorrect.	
The correct answers are: Conversion from char to long does not need a cast., Conversion from byte to short does not need a cast., Conversion from short to char needs a cast., Conversion from byte, char or short to in long or float does not need a cast.	
Question 13	
Incorrect	
Mark 0.00 out of 1.00	
Which of the following are valid declarations of the standard <i>main()</i> method?  Please select 2 options.	
Select one or more:  [ final static public void main (String[] arguments) {}	
public static void main (String args) { }	
■ public static void main (String[] args) {}	
static void main(String args[]) { }	
public static int main(String args[]) {}	
Your answer is incorrect.	
The correct answers are: final static public void main (String[] arguments ) { }, public static void main (String	aľ

] args) { }