Started on	Monday, 24 February 2020, 1:56 AM
State	Finished
Completed on	Monday, 24 February 2020, 1:59 AM
Time taken	3 mins 3 secs
Marks	4.00/5.00
Grade	**80.00** out of 100.00
Feedback	Congratulations!!! You have passed by securing more than 80%

Question 1

Incorrect

Mark 0.00 out of 1.00

Flag question

For the below code, what are the valid ways to invoke display method in the main method.

```
public class Test {
    public static void display(){
    }
}
public class Main {
    public static void main(String a[]){
        //Invoke the display method
    }
}
```

Select one or more:

- a. Test.display();
- b. display(); ✖
- c. new Test().display(); ✔

Static method can be invoked either by using the object instance or using the class name.

The correct answers are: Test.display();, new Test().display();

Question 2

Correct

Observe the code :

```
public class Employee {
    String name;
```

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Finish review

Mark 1.00 out of 1.00

Flag question

```
    static int employeeCount;
    //Line 1
}
```

Which of the following code can be included in Line 1?

Select one or more:

- a.
```
public void display(){
        System.out.println("Employee Name"+name);
}
```
✔

- b.
```
public static void display(){
        System.out.println("Employee count "+employeeCount);
}
```
✔

- c.
```
public static void display()  {
        System.out.println("Employee Name"+name);
 }
```

- d.
```
public void display(){
        System.out.println("Employee count "+employeeCount);
}
```
✔

From a static method, we can access only static members. Non static members cannot be accessed from static methods.

However, from a non static method, we can access both static and non static members.

The correct answers are:

```
public static void display(){
        System.out.println("Employee count "+employeeCount);
},
public void display(){
        System.out.println("Employee count "+employeeCount);
},
public void display(){
        System.out.println("Employee Name"+name);
}
```

Question 3

Correct

Mark 1.00 out of 1.00

Flag question

Choose the correct option :

```
public class Flight{
    int flightId;
    static int noOfSeats;
    public static void display(){
        System.out.println("No of seats "+noOfSeats);
```
✔

```
    }
}
```

Non static members cannot be accessed from static methods. If we want to access non static members from a static method it is possible by creating an object. Hence, only "noOfSeats" can be accessed, not "flightId".

The correct answer is:
Choose the correct option :

```
public class Flight{
    int flightId;
    static int noOfSeats;
   public static void display(){
        [System.out.println("No of seats "+noOfSeats);]
    }
}
```

Question 4

Correct

Mark 1.00 out of 1.00

Flag question

Match the following :

non static method	Can access both static and non static members ✔
static method	Can access static members only ✔

Your answer is correct.

The correct answer is: non static method → Can access both static and non static members, static method → Can access static members only

Question 5

Correct

Mark 1.00 out of 1.00

Flag

Observe the below code

```
public class Product
{
    int productId;
    String productName;
    static int count = 0;
```

question

```
    public Product(int pid,String name){
        productId = pid;
        productName=name;
        count++;
    }

    public static void main(String arg[]){

        Product p1=new Product(101,"Screws");
        System.out.println("Count is "+Product.count);
        Product p2=new Product(102,"Nuts");
        Product p3=new Product(103,"Nails");
        System.out.println("Count is "+p3.count);
    }
}
```

Drag and drop the options correctly so that the output will be

Count is 1

Count is 3

The value of the static count variable is incremented by 1 after each object creation. So a simple print statement displaying count would suffice.

The correct answer is:

Observe the below code

```
public class Product
{
    int productId;
    String productName;
    static int count  = 0;

    public Product(int pid,String name){
        productId = pid;
        productName=name;
        count++;
    }
```

```
    public static void main(String arg[]){

        Product p1=new Product(101,"Screws");
        [System.out.println("Count is "+Product.count);]
        Product p2=new Product(102,"Nuts");
        Product p3=new Product(103,"Nails");
        [System.out.println("Count is "+p3.count); ]
    }
}
```

Drag and drop the options correctly so that the output will be

Count is 1

Count is 3

Finish review