DAY-26(HASHING)

1

What will be the output of the following Java code snippet?

```java
public class Demo{
  public static void main(String[] args) {
      Map<Integer, Object> map = new HashMap<Integer, Object>();
      map.put(1, null);
      map.put(5, null);
      map.put(3, null);
      map.put(2, null);
      map.put(4, null);

      System.out.println(map);
  }
}
```

☐ "Exception is thrown"

☐ "{1=null, 2=null, 3=null, 4=null, 5=null}"

☐ '{5=null} '

☐ '{1=null, 5=null, 3=null, 2=null, 4=null} '

Incorrect

Which of the following methods is used to check if an element exists in a HashSet?

☐ containsKey()

☑ contains()

☐ find()

☐ get()

Correct

What happens if we put a key object in a HashMap which exists?

- ☑ "The new object replaces the older object",

- ☐ 'The new object is discarded ',

- ☐ 'It throws an exception as the key already exists in the map '

- ☐ "The old object is removed from the map",

Correct

Predict the output -

```java
public class Main{
    public static void main(String[] args) {
        Set s = new HashSet();
        s.add(new Long(10));
        s.add(new Integer(10));
        for(Object object : s) {
            System.out.println("test - " + object);
        }
    }
}
```

☐ Runtime error

☐ 10 10

☐ test - 10 test - 10

☐ code does not compile

Incorrect

What is the time complexity of retrieving a value from a HashMap by its key?

☐ O(log n)

☐ O(n)

☑ O(1)

☐ O(n^2)

Correct