11. SET- MAP

Question **1**
Complete
Marked out of 1.00
Flag question

Which of these object stores association between keys and values?

a. Array
b. String
c. Hash table
d. Map

Question **2**
Complete
Marked out of 1.00
Flag question

Given:

```
TreeSet map = new TreeSet();
map.add("one");
map.add("two");
map.add("three");
map.add("four");
map.add("one");
Iterator it = map.iterator();
while (it.hasNext() ) {
System.out.print( it.next() + " " );
}
```

What is the result?

a. four one three two
b. one two three four
c. four three two one
d. An exception is thrown at runtime.
e. one two three four one

Question **3**
Complete
Marked out of 1.00
Flag question

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

```
1. public class Demo
2. {
3.   public static void main(String[] args)
4.   {
5.   Map<Integer, Object> sampleMap = new TreeMap<Integer, Object>();
6.   sampleMap.put(1, null);
7.   sampleMap.put(5, null);
8.   sampleMap.put(3, null);
9.   sampleMap.put(2, null);
10.   sampleMap.put(4, null);
11.
12.       System.out.println(sampleMap);
13.   }
14. }
```

a. {1=null, 5=null, 3=null, 2=null, 4=null}
b. {5=null}
c. {1=null, 2=null, 3=null, 4=null, 5=null}
d. Exception is thrown

Question **4**
Complete
Marked out of 1.00
Flag question

Which of these method is used add an element and corresponding key to a map?

a. put()
b. set()
c. add()
d. redo()

Question **5**
Complete
Marked out of 1.00
Flag question

Which interface does java.util.Hashtable implement?

a. java.util.Collection
b. java.util.List
c. java.util.HashTable
d. java.util.Map

Question **6**
Complete
Marked out of 1.00
Flag question

Which of the following maintains no ordering and contains unique elements?

a. HashMap
b. All of the mentioned
c. TreeMap
d. LinkedHashMap

Question **7**
Complete
Marked out of 1.00
Flag question

Which of the following are false about Collections and Collection?

a. Collections is a Utility class
b. Both Collections and Collection entity belongs to java.util package
c. Collection is an interface to Set and List
d. Collections is a special type of collection which holds Set of collections

Question **8**
Complete
Marked out of 1.00
Flag question

Which of these methods can be used to obtain set of all keys in a map?

a. getAll()
b. keySet()
c. getKeys()
d. keyall()

Question **9**
Complete
Marked out of 1.00
Flag question

Is hashmap an ordered collection.

a. True
b. False

Question **10**
Complete
Marked out of 1.00
Flag question

Which of the below does not implement Map interface?

a. Hashtable
b. Vector
c. EnumMap
d. HashMap

Question **11**
Complete
Marked out of 1.00
Flag question

Which of these method is used add an element and corresponding key to a map?

a. redo()
b. set()
c. put()
d. add()

Question **12**
Complete
Marked out of 1.00
Flag question

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

a. The new object is discarded
b. It throws an exception as the key already exists in the map
c. The old object is removed from the map
d. The new object replaces the older object

Question **13**
Complete
Marked out of 1.00
Flag question

What will the output for the following code snippet?

```
HashMap map1 = new HashMap();
HashMap map2 = new HashMap();
map1.put(1, "E-BOX");
map1.put(2, "Learning and Assessment");
map1.put(3, "Platform");
map2.putAll(map1);
System.out.println(map2);
```

a. CompileTimeError
b. { }
c. 1,2,3
d. {1=E-BOX, 2=Learning and Assessment, 3=Platform}

Question **14**
Complete
Marked out of 1.00
Flag question

Which of these methods can be used to obtain set of all keys in a map?

a. keySet()
b. getKeys()
c. getAll()
d. keyall()

Question **15**
Complete
Marked out of 1.00
Flag question

Select one or more true statements:

A. Set does not store duplicate values

B. All Set implementations are sorted.

C . HashMap and Hashtable both store key value pairs, Hashtable we would use in case of synchronization requirements.

D. List implemetations dynamically grow in size, allow duplicates and are not sorted

a. only C
b. only B
c. A, C, D
d. Both A and D

Question **16**
Complete
Marked out of 1.00
Flag question

What will be the output of the following Java program?

```
1.  import java.util.*;
2.  class Maps
3.  {
4.      public static void main(String args[])
5.      {
6.          HashMap obj = new HashMap();
7.          obj.put("A", new Integer(1));
8.          obj.put("B", new Integer(2));
9.          obj.put("C", new Integer(3));
10.           System.out.println(obj);
11.     }
12. }
```

a. {A 1, B 1, C 1}
b. {A, B, C}
c. {A=1, B=2, C=3}
d. {A-1, B-1, C-1}

Question **17**
Complete
Marked out of 1.00
Flag question

What is the output of this program?

```
import java.util.*;
class Maps {
   public static void main(String args[]) {
      HashMap obj = new HashMap();
      obj.put("A", new Integer(1));
      obj.put("B", new Integer(2));
      obj.put("C", new Integer(3));
      System.out.println(obj);
   }
}
```

a. {A-1, B-1, C-1}
b. {A 1, B 1, C 1}
c. {A, B, C}
d. {A=1, B=2, C=3}

Question **18**
Complete
Marked out of 1.00
Flag question

Which of these method Map class is used to obtain an element in the map having specified key?

a. set()
b. look()
c. search()
d. get()

Question **19**
Complete
Marked out of 1.00
Flag question

Which interface provides the capability to store objects using a key-value pair?

a. Java.util.List
b. Java.util.Set
c. Java.util.Collection
d. Java.util.Map

Question **20**
Complete
Marked out of 1.00
Flag question

Which of these method is used to remove all keys/values pair from the invoking map?

a. remove()
b. removeAll()
c. delete()
d. clear()

Question **21**
Complete
Marked out of 1.00
Flag question

Given:

```
public static void before() {
Set set = new TreeSet();
set.add("2");
set.add(3);
set.add("1");
Iterator it = set.iterator();
while (it.hasNext())
System.out.print(it.next() + " ");
}
```

Which of the following statements are true?

a. The before() method will not compile
b. The before() method will print 1 2
c. The before() method will throw an exception at runtime
d. The before() method will print 1 2 3
e. The before() method will print three numbers, but the order cannot be determined

Question **22**
Complete
Marked out of 1.00
Flag question

Which of the following method is used to remove all key/value pair map?

a. None of the mentioned
b. deleteAll()
c. removeAll()
d. remove()

Question **23**
Complete
Marked out of 1.00
Flag question

Which of these classes provide implementation of map interface?

a. ArrayList
b. DynamicList
c. HashMap
d. LinkedList

Question **24**
Complete
Marked out of 1.00
Flag question

Suppose that you would like to create an instance of a new Map that has an iteration order that is the same as the iteration order of an existing instance of a Map. Which concrete implementation of the Map interface should be used for the new instance?

a. The answer depends on the implementation of the existing instance.
b. TreeMap
c. HashMap
d. LinkedHashMap

Question **25**
Complete
Marked out of 1.00
Flag question

What will be the output of the following?

```
import java.util.Iterator;
import java.util.TreeSet;

public class Test {
 public static void main(String[] args) {
  TreeSet map = new TreeSet();
  map.add("one");
  map.add("two");
  map.add("three");
  map.add("four");
  map.add("one");
  Iterator it = map.iterator();
  while(it.hasNext()) {
   System.out.print(it.next() + " ");
  }
 }
}
```

- a. one two three four one
- b. four three two one
- c. four one three two
- d. one two three four
- e. An exception is thrown at runtime

Question **26**
Complete
Marked out of 1.00
Flag question

Which code will sort the keys of props hashmap?

```
HashMap props=new HashMap();
props.put("Key45","value45");
props.put("Key24","value24");
props.put("Key33","value33");
Set s=props.keySet();
//insert code here
```

- a. s=new SortedSet(s);
- b. s=new TreeSet(s)
- c. Collections.sort(s);
- d. Array.sort(s)

Question **27**
Complete
Marked out of 1.00
Flag question

What will be the output of the following Java program?

```
1.  import java.util.*;
2.  class Maps
3.  {
4.     public static void main(String args[])
5.     {
6.        TreeMap obj = new TreeMap();
7.        obj.put("A", new Integer(1));
8.        obj.put("B", new Integer(2));
9.        obj.put("C", new Integer(3));
10.         System.out.println(obj.entrySet());
11.    }
12. }
```

- a. [1, 2, 3]
- b. {A=1, B=2, C=3}
- c. [A=1, B=2, C=3]
- d. [A, B, C]

Question **28**
Complete
Marked out of 1.00
Flag question

Map implements collection interface?

a. False
b. True

Question **29**
Complete
Marked out of 1.00
Flag question

What is the result of attempting to compile and run the following code?

```
import java.util.TreeSet;
public class Test {

public static void main(String[] args){
Integer a = new Integer(4);
Integer b = new Integer(8);
Integer c = new Integer(4);
TreeSet ts = new TreeSet();
ts.add(a);
ts.add(b);
ts.add(c);
System.out.println(ts);
}
}
```

a. Will print [4, 8, 4]
b. Will print [8, 4]
c. Will print [4, 8]
d. Will print [8, 4, 4]
e. Will print [4, 4, 8]

Question **30**
Complete
Marked out of 1.00
Flag question

Which collection class allows you to associate its elements with key values, and allows you to retrieve objects in FIFO (first-in, first-out) sequence?

a. java.util.TreeMap
b. java.util.HashMap
c. java.util.LinkedHashMap
d. java.util.ArrayList

Question **31**
Complete
Marked out of 1.00
Flag question

Which of these method Map class is used to obtain an element in the map having specified key?

a. get()
b. set()
c. search()
d. look()

Question **32**
Complete
Marked out of 1.00
Flag question

What will be the output of the following Java program?

```
1.  import java.util.*;
2.  class Maps
3.  {
4.      public static void main(String args[])
5.      {
6.          HashMap obj = new HashMap();
7.          obj.put("A", new Integer(1));
8.          obj.put("B", new Integer(2));
9.          obj.put("C", new Integer(3));
10.           System.out.println(obj.keySet());
11.     }
12. }
```

a. [1, 2, 3]
b. [A, B, C]
c. {A, B, C}
d. {1, 2, 3}

Question 33
Complete
Marked out of 1.00
Flag question

What will be the output of the following Java program?

```
1.  import java.util.*;
2.  class Maps
3.  {
4.     public static void main(String args[])
5.     {
6.        HashMap obj = new HashMap();
7.        obj.put("A", new Integer(1));
8.        obj.put("B", new Integer(2));
9.        obj.put("C", new Integer(3));
10.         System.out.println(obj.get("B"));
11.    }
12. }
```

a. 1
b. null
c. 3
d. 2

Question 34
Complete
Marked out of 1.00
Flag question

While finding the correct location for saving key value pair, how many times the key is hashed?

a. unlimited till bucket is found
b. 1
c. 3
d. 2

Question 35
Complete
Marked out of 1.00
Flag question

Which interface does java.util.Hashtable implement?

a. Java.util.List
b. Java.util.Map
c. Java.util.Collection
d. Java.util.HashTable