Question **1**

Complete

Marked out of 1.00

Flag question

Which of these classes implements Set interface?

- a. HashSet
- b. LinkedList
- c. DynamicList
- d. ArrayList

Question **2**

Complete

Marked out of 1.00

Flag question

What will be the output of the following Java program?

```
1.  import java.util.*;
2.  class Output
3.  {
4.      public static void main(String args[])
5.      {
6.          TreeSet t = new TreeSet();
7.          t.add("3");
8.          t.add("9");
9.          t.add("1");
10.           t.add("4");
11.         t.add("8");
12.         System.out.println(t);
13.     }
14. }
```

- a. [3, 4, 1, 8, 9]
- b. [1, 3, 4, 8, 9]
- c. [1, 3, 5, 8, 9]
- d. [9, 8, 4, 3, 1]

Question **3**

Complete

Marked out of 1.00

Flag question

What is the output of this program?

```
import java.util.*;
   class Output
   {
      public static void main(String args[])
      {
         ArrayList obj = new ArrayList();
         obj.add("A");
         obj.add(0, "B");
         System.out.println(obj.size());
      }
   }
```

a. 0

b. 1

c. 3

d. 2

Question **4**

Complete

Marked out of 1.00

Flag question

Which of this method is used to change an element in a LinkedList Object?

a. set()

b. change()

c. redo()

d. add()

Question **5**

Complete

Marked out of 1.00

Flag question

What is the difference between TreeSet and SortedSet?

a. TreeSet is an interface; SortedSet is a concrete class

b. SortedSet is more efficient than TreeSet

c. SortedSet is an interface; TreeSet is a concrete class

d. TreeSet is more efficient than SortedSet

Question **6**

Complete

Marked out of 1.00

Flag question

How to sort elements of ArrayList?

a. listObj.sort();

b. Collection.sort(listObj);

c. Collections.sort(listObj);

d. Sorter.sortAsc(listObj);

Question **7**

Complete

Marked out of 1.00

Flag question

What will be the output of the following Java program?

```
1.  import java.util.*;
2.  class Arraylist
3.  {
4.     public static void main(String args[])
5.     {
6.        ArrayList obj = new ArrayList();
7.        obj.add("A");
8.        obj.add("B");
9.        obj.add("C");
10.         obj.add(1, "D");
11.         System.out.println(obj);
12.    }
13.  }
```

a. [A, D, C]

b. [A, B, C, D]

c. [A, D, B, C]

d. [A, B, C]

Question **8**

Complete

Marked out of 1.00

Flag question

What is the functionality of the following piece of code? Select the most appropriate

```
public void function(int data)
{
 int flag = 0;
 if( head != null)
 {
  Node temp = head.getNext();
  while((temp != head) && (!(temp.getItem() == data)))
  {
   temp = temp.getNext();
   flag = 1;
   break;
  }
 }
 if(flag)
  System.out.println("success");
 else
  System.out.println("fail");
}
```

a. Print success if a particular element is not found

b. Print fail if a particular element is not found

c. Print fail if the list is empty

d. Print success if a particular element is equal to 1

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

You need to store elements in a collection that guarantees that no duplicates are stored and all elements can be accessed in natural order. Which interface provides that capability?

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

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

How can we remove an object from ArrayList?

a. remove() method
b. using Iterator
c. remove() method and using Iterator
d. delete() method

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

What is the default clone of HashSet?

a. Shallow clone
b. Plain clone
c. Deep clone
d. Hollow clone

Question **12**

Complete

Marked out of 1.00

Flag question

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

```
1.  import java.util.*;
2.  class Linkedlist
3.  {
4.     public static void main(String args[])
5.     {
6.        LinkedList obj = new LinkedList();
7.        obj.add("A");
8.        obj.add("B");
9.        obj.add("C");
10.         obj.addFirst("D");
11.         System.out.println(obj);
12.    }
13. }
```

a. [A, B, C, D]

b. [D, B, C]

c. [A, B, C]

d. [D, A, B, C]

Question **13**

Complete

Marked out of 1.00

Flag question

Which of the following can be used as stack,queue,list?

a. All of the mentioned

b. LinkedHashMap

c. LinkedHashSet

d. LinkedList

Question **14**

Complete

Marked out of 1.00

Flag question

What will be the output of the program?

```
import java.util.*;
class I
{
   public static void main (String[] args)
   {
      Object i = new ArrayList().iterator();
      System.out.print((i instanceof List)+",");
      System.out.print((i instanceof Iterator)+",");
      System.out.print(i instanceof ListIterator);
   }
}
```

a. Prints: false, false, false

b. Prints: false, true, true

c. Prints: false, false, true

d. Prints: false, true, false

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

Which of these method of ArrayList class is used to obtain present size of an object?

a. length()
b. index()
c. capacity()
d. size()

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

How to create a TreeSet that stores values in descending order ?

a. TreeSet<Integer> set = new TreeSet<>(Collection.orderReverse());
b. TreeSet<Integer> set = new TreeSet<>().reverseCollection();
c. TreeSet<Integer> set = new TreeSet<>(Collections.reverseOrder());
d. TreeSet<Integer> set = new TreeSet<>().reverse();

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

What differentiates a circular linked list from a normal linked list?

a. Head node is known in circular linked list
b. You may or may not have the 'next' pointer point to null in a circular linked list
c. It is faster to traverse the circular linked list
d. You cannot have the 'next' pointer point to null in a circular linked list

Question **18**

Complete

Marked out of 1.00

Flag question

Does Set permit null values?

- a. No
- b. Yes
- c. Only one
- d. throws error

Question **19**

Complete

Marked out of 1.00

Flag question

What will be the output of the following Java program?

```
1.  import java.util.*;
2.  class Linkedlist
3.  {
4.     public static void main(String args[])
5.     {
6.        LinkedList obj = new LinkedList();
7.        obj.add("A");
8.        obj.add("B");
9.        obj.add("C");
10.         obj.removeFirst();
11.         System.out.println(obj);
12.    }
13. }
```

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

Question **20**

Complete

Marked out of 1.00

Flag question

Which of these method of HashSet class is used to add elements to its object?

a. insert()

b. addFirst()

c. add()

d. Add()

Question **21**

Complete

Marked out of 1.00

Flag question

You need to store elements in a collection that guarantees that no duplicates are stored and all elements can be accessed in natural order. Which interface provides that capability?

a. java.util.Map

b. java.util.Set

c. java.util.List

d. java.util.Collection

Question **22**

Complete

Marked out of 1.00

Flag question

Since Set interface in java closely resembles the mathematical set model, which of the following operations in mathematical set model can be implemented by the Set interface as well?

a. intersection

b. All of the mentioned

c. difference

d. Union

Question **23**

Complete

Marked out of 1.00

Flag question

Which collection class allows you to grow or shrink its size and provides indexed access to its elements, but whose methods are not synchronized?

- a. java.util.LinkedHashSet
- b. java.util.HashSet
- c. java.util.List
- d. java.util.ArrayList

Question **24**

Complete

Marked out of 1.00

Flag question

What will be the output of the following Java program?

```
1.  import java.util.*;
2.  class Output
3.  {
4.      public static void main(String args[])
5.      {
6.          ArrayList obj = new ArrayList();
7.          obj.add("A");
8.          obj.add(0, "B");
9.          System.out.println(obj.size());
10.     }
11. }
```

- a. 2
- b. 1
- c. 0
- d. Any Garbage Value

Question **25**

Complete

Marked out of 1.00

Flag question

Which of these standard collection classes implements a linked list data structure?

a. AbstractSet

b. LinkedList

c. HashSet

d. AbstractList

Question **26**

Complete

Marked out of 1.00

Flag question

Which collection class allows you to grow or shrink its size and provides indexed access to its elements, but whose methods are not synchronized?

a. java.util.List

b. java.util.ArrayList

c. java.util.HashSet

d. java.util.LinkedHashSet

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 Output
3.  {
4.      public static void main(String args[])
5.      {
6.          ArrayList obj = new ArrayList();
7.          obj.add("A");
8.          obj.ensureCapacity(3);
9.          System.out.println(obj.size());
10.     }
11. }
```

a. 1

b. 3

c. 4

d. 2

Question **28**

Complete

Marked out of 1.00

Flag question

What will be the output of the following Java program?

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

a. ABC 3

b. [A, B, C] 2

c. [A, B, C] 3

d. ABC 2

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

What implementation of Iterator can traverse a collection in both directions?

a. Iterator
b. ListIterator
c. SetIterator
d. MapIterator

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

What is the difference between length() and size() of ArrayList?

a. length() is not defined in ArrayList
b. length() returns the capacity of ArrayList and size() returns the actual number of elements stored in the list
c. length() and size() return the same value
d. size() is not defined in ArrayList

Question **31**

Complete

Marked out of 1.00

Flag question

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

```
1. public class Test
2. {
3.  public static void main(String[] args)
4.       {
5.  Set s = new HashSet();
6.  s.add(new Long(10));
7.  s.add(new Integer(10));
8.  for(Object object : s)
9.              {
10.     System.out.println("test - "+object);
11.  }
12. }
13. }
```

a. Test – 10

b. Runtime Exception

c. Compilation Failure

d. Test - 10
Test - 10

Question **32**

Complete

Marked out of 1.00

Flag question

What are the initial capacity and load factor of HashSet?

a. 32, 0.75

b. 10, 1.0

c. 16, 0.75

d. 32, 1.0

Question **33**

Complete

Marked out of 1.00

Flag question

What is the unique feature of LinkedHashSet?

- a. It maintains the insertion order and guarantees uniqueness
- b. The elements in the collection are linked to each other
- c. It provides a way to store key values with uniqueness
- d. It is not a valid class

Question **34**

Complete

Marked out of 1.00

Flag question

Which of these methods can be used to delete the last element in a LinkedList object?

- a. deleteLast()
- b. remove()
- c. removeLast()
- d. delete()

Question **35**

Complete

Marked out of 1.00

Flag question

How to remove duplicates from List?

- a. HashSet<String> listToSet = duplicateList.getSet();
- b. HashSet<String> listToSet = new HashSet<String>(duplicateList);
- c. HashSet<String> listToSet = duplicateList.toSet();
- d. HashSet<String> listToSet = Collections.convertToSet(duplicateList);