

Q1. Find predicted output of given program which is used to add and delete elements using Stack.

```
class mcq
{
    public static void main(string args[])
    {
        Stack obj = new Stack();
        obj.push(new Integer(3));
        obj.push(new Integer(2));
        obj.pop();
        obj.push(new Integer(5));
        System.out.println(obj);
    }
}
```

a) **[3, 5]**

b) [3, 2]

c) [3, 2, 5]

d) [3, 5, 2]

Q2. What is the output of the program?

```
interface calculate {
    int VAR = 0;
    void cal(int item);
}
class display implements calculate {
    int x;
    public void cal(int item) {
        if (item < 2)
            x = VAR;
        else
            x = item * item;
    }
}
class mcq {
    public static void main(String[] args) {
        display[] arr = new display[3];
        for (int i = 0; i < 3; i++) arr[i] = new display();
        arr[0].cal(0);
        arr[1].cal(1);
        arr[2].cal(2);
        System.out.print(arr[0].x + " " + arr[1].x + " " + arr[2].x);
    }
}
```

a) 0 1 2

b) 0 2 4

c) **0 0 4**

d) 0 1 4

- Q3. What are generic methods?

- A. Generic methods are methods that take void parameters
- **B. Generic methods are the methods defined in a generic class**
- C. Generic methods are the methods that extend generic class methods
- D. Generic methods are methods that introduce their own type parameters

Q4. What will be the output of the following program?

```
public class mcq
{
    public static void main(String[] args) {
        char ch = 65;
        System.out.println("character = " + ch);
    }
}
```

- a) character =65
- b) Compilation Error
- c) character =A**
- d) character ="65"

Q5. What will be the output of the following program?

```
public class mcq {
    public static void main(String[] args) {
        Super s = new Sub();
        s.foo();
    }
}
class Super {
    void foo() {
        System.out.println("Class Super");
    }
}
class Sub extends Super {
    static void foo() {
        System.out.println("Class Sub");
    }
}
```

- a) Class Super
- b) Class Sub
- c) foo() in Sub cannot override foo() in Super**
- d) The statement "Super s = new Sub();" is illegal.

Q6. Find predicted output of given program which is used to add and delete elements using Stack.

```
class mcq
{
    public static void main(string args[])
    {
```

```

        Stack obj = new Stack();
        obj.push(new Integer(3));
        obj.push(new Integer(2));
        obj.pop();
        obj.push(new Integer(5));
        System.out.println(obj);
    }
}

```

- a) **[3, 5]**
- b) [3, 2]
- c) [3, 2, 5]
- d) [3, 5, 2]

Q7. What is the output of the program?

```

interface calculate {
    int VAR = 0;
    void cal(int item);
}
class display implements calculate {
    int x;
    public void cal(int item) {
        if (item < 2)
            x = VAR;
        else
            x = item * item;
    }
}
class mcq {
    public static void main(String[] args) {
        display[] arr = new display[3];
        for (int i = 0; i < 3; i++) arr[i] = new display();
        arr[0].cal(0);
        arr[1].cal(1);
        arr[2].cal(2);
        System.out.print(arr[0].x + " " + arr[1].x + " " + arr[2].x);
    }
}

```

- a) 0 1 2
- b) 0 2 4
- c) **0 0 4**
- d) 0 1 4

- Q8. What will be the output of the following Java program?

```

import java.util.*;
public class genericstack
{
    Stack stk = new Stack ();
}

```

```

public void push(E obj)
{
    stk.push(obj);
}
public E pop()
{
    E obj = stk.pop();
    return obj;
}
}
class Output
{
    public static void main(String args[])
    {
        genericstack gs = new genericstack();
        gs.push("Hello");
        System.out.println(gs.pop());
    }
}

```

- A. H
- B. **Hello**
- C. Runtime Error
- D. Compilation Error

Q9. What will be the output of the following program?

```

public class mcq
{
    public static void main(String[] args) {
        char ch = 65;
        System.out.println("character = " + ch);
    }
}

```

- e) character =65
- f) Compilation Error
- g) character =A**
- h) character ="65"

Q10. What will be the output of the following program?

```

public class mcq {
    public static void main(String[] args) {
        Super s = new Sub();
        s.foo();
    }
}
class Super {
    void foo() {

```

```

        System.out.println("Class Super");
    }
}
class Sub extends Super {
    static void foo() {
        System.out.println("Class Sub");
    }
}

```

e) Class Super  
f) Class Sub  
**g) foo() in Sub cannot override foo() in Super**  
h) The statement "Super s = new Sub();" is illegal.

Q11. What will be the output of the following code?

```

import java.util.*;
public class Main
{
    public static void main(String[] args)
    {
        List<String> names = new LinkedList<>();
        names.add("Raman");
        names.add("Shyam");
        names.add("Rahul");
        names.add("Rohit");
        names.add("Ramit");
        ListIterator<String> it = names.listIterator(3);
        while(it.hasPrevious()){
            System.out.print(it.previous()+" ");
        }
    }
}

```

- a) Raman Shyam Rahul  
b) Shyam Rahul Rohit  
c) Rahul Rohit Ramit  
**d) Rahul Shyam Raman**

Q12. What will be the output of the following java code?

```

public class Main
{
    public static void main(String[ ] args)
    {
        StringBuffer[ ] stringBufferers = new StringBuffer[10];
        for (int i = 0; i < stringBufferers.length; i++)
            stringBufferers [i].append("index " + i);
        System.out.println(stringBufferers);
    }
}

```

- a) Compile Time Error
- b) Null Pointer Exception**
- c) index0index
- d) 0123456789

Q13. What will be the output of the following java code?

```
class A {
    public void aMethod() {
        System.out.println("a Method from A");
    }
}
class B extends A {
    public void aMethod() {
        System.out.println("a Method from B");
    }
}
public class Main {
    public static void main(String ar[]) {
        A a = new B();
        a.aMethod();
    }
}
```

- a) a Method from A
- b) a Method from B**
- c) Compilation Error
- d) Runtime Exception

Q14. What will be the output of the following code?

```
import java.util.*;
class genericstack <E>
{
    Stack <E> stk = new Stack <E>();
    public void push(E obj)
    {
        stk.push(obj);
    }
    public E pop()
    {
        E obj = stk.pop();
        return obj;
    }
}
public class Main
{
    public static void main(String args[])
    {
        genericstack <String> gs = new genericstack<String>();
        gs.push("Hello");
        gs.push(25);
    }
}
```

```

        System.out.println(gs.pop());
    }
}

```

- a) **Compile Time Error: incompatible types**
- b) Compile Time Error: Stack class does not exist
- c) Compile Time Error: E is not defined
- d) No Compile Time Error

Q15. Which IO stream in Java is used to read or write primitive data types?

- a) BufferedDataInputStream and BufferedDataOutputStream
- b) **DataInputStream and DataOutputStream**
- c) BufferedInputStream and BufferedOutputStream
- d) FilteredDataInputStream and FilteredDataOutputStream

Q16. Find predicted output of given program which is used to add and delete elements using Stack.  
class mcq

```

{
    public static void main(string args[])
    {
        Stack obj = new Stack();
        obj.push(new Integer(4);
        obj.push(new Integer(2));
        obj.pop();
        obj.push(new Integer(5));
        System.out.println(obj);
    }
}

```

- a) **[4, 5]**
- b) [3, 2]
- c) [3, 2, 5]
- d) [3, 5, 2]

Q17. What is the output of the program?

```

interface calculate {
    int VAR = 0;
    void cal(int item);
}
class display implements calculate {
    int x;
    public void cal(int item) {
        if (item < 2)
            x = VAR;
        else
            x = item * item;
    }
}
class mcq {

```

```

public static void main(String[] args) {
    display[] arr = new display[3];
    for (int i = 0; i < 3; i++) arr[i] = new display();
    arr[0].cal(0);
    arr[1].cal(1);
    arr[2].cal(2);
    System.out.print(arr[0].x + " " + arr[1].x + " " + arr[2].x);
}
}
a) 0 1 2
b) 0 2 4
c) 0 0 4
d) 0 1 4

```

Q18 Which of the following is incorrect statement regarding the use of generics and parameterized types in Java?

- A. Generics provide type safety by shifting more type checking responsibilities to the compiler
- B. Generics and parameterized types eliminate the need for down casts when using Java Collections
- C. When designing your own collections class (say, a linked list), generics and parameterized types allow you to achieve type safety with just a single class definition as opposed to defining multiple classes
- D. All of the mentioned

Q19. Which of the following allows us to call generic methods as a normal method?

- A. Interface
- B. Inner class
- C. Type Interface
- D. All of the mentioned

Q20. What will be the output of the following program?

```

public class mcq {
    public static void main(String[] args) {
        Super s = new Sub();
        s.foo();
    }
}
class Super {
    void foo() {
        System.out.println("Class Super");
    }
}
class Sub extends Super {
    static void foo() {
        System.out.println("Class Sub");
    }
}

```



```

    }
}

```

- a) Class Super
- b) Class Sub
- c) foo() in Sub cannot override foo() in Super**
- d) The statement "Super s = new Sub();" is illegal.

Q21. Find predicted output of given program which is used to add and delete elements using Stack.

```

class mcq
{
    public static void main(string args[])
    {
        Stack obj = new Stack();
        obj.push(new Integer(5));
        obj.push(new Integer(2));
        obj.pop();
        obj.push(new Integer(5));
        System.out.println(obj);
    }
}

```

- a) [5, 5]**
- b) [3, 2]
- c) [3, 2, 5]
- d) [3, 5, 2]

Q22. What is the output of the program?

```

interface calculate {
    int VAR = 0;
    void cal(int item);
}

class display implements calculate {
    int x;
    public void cal(int item) {
        if (item < 2)
            x = VAR;
        else
            x = item * item;
    }
}

class mcq {
    public static void main(String[] args) {
        display[] arr = new display[3];
        for (int i = 0; i < 3; i++) arr[i] = new display();
        arr[0].cal(0);
        arr[1].cal(1);
        arr[2].cal(2);
        System.out.print(arr[0].x + " " + arr[1].x + " " + arr[2].x);
    }
}

```

```

    }
}
a) 0 1 2
b) 0 2 4
c) 0 0 4
d) 0 1 4

```

•  
•

Q23. What will be the output of the following Java program?

```

import java.util.*;
public class genericstack
{
    Stack stk = new Stack ();
    public void push(E obj)
    {
        stk.push(obj);
    }
    public E pop()
    {
        E obj = stk.pop();
        return obj;
    }
}
class Output
{
    public static void main(String args[])
    {
        genericstack gs = new genericstack();
        gs.push("Hello");
        System.out.println(gs.pop());
    }
}
A. H

```

- B. Hello  
C. Runtime Error  
D. Compilation Error

Q24. What will be the output of the following program?

```

public class mcq
{
    public static void main(String[] args) {
        char ch = 65;
        System.out.println("character = " + ch);
    }
}

```

- a) character =65
- b) Compilation Error
- c) character =A**
- d) character ="65"

Q25. What will be the output of the following program?

```
public class mcq {
    public static void main(String[] args) {
        Super s = new Sub();
        s.foo();
    }
}
class Super {
    void foo() {
        System.out.println("Class Super");
    }
}
class Sub extends Super {
    static void foo() {
        System.out.println("Class Sub");
    }
}
```

- e) Class Super
- f) Class Sub
- g) foo() in Sub cannot override foo() in Super**
- h) The statement "Super s = new Sub();" is illegal.

Q26. What will be the output of the following code?

```
import java.util.*;
public class Main
{
    public static void main(String[] args)
    {
        List<String> names = new LinkedList<>();
        names.add("Raman");
        names.add("Shyam");
        names.add("Rahul");
        names.add("Rohit");
        names.add("Ramit");
        ListIterator<String> it = names.listIterator(3);
        while(it.hasPrevious()){
            System.out.print(it.previous()+" ");
        }
    }
}
```

- a) Raman Shyam Rahul
- b) Shyam Rahul Rohit
- c) Rahul Rohit Ramit
- d) Rahul Shyam Raman**

Q27. What will be the output of the following java code?

```
public class Main
{
    public static void main(String[ ] args)
    {
        StringBuffer[ ] stringBuffer = new StringBuffer[10];
        for (int i = 0; i < stringBuffer.length; i++)
            stringBuffer[i].append("index " + i);
        System.out.println(stringBuffer);
    }
}
```

- a) Compile Time Error
- b) Null Pointer Exception**
- c) index0index
- d) 0123456789

Q28. What will be the output of the following java code?

```
class A {
    public void aMethod() {
        System.out.println("a Method from A");
    }
}
class B extends A {
    public void aMethod() {
        System.out.println("a Method from B");
    }
}
public class Main {
    public static void main(String ar[]) {
        A a = new B();
        a.aMethod();
    }
}
```

- a) a Method from A
- b) a Method from B**
- c) Compilation Error
- d) Runtime Exception

Q29. What will be the output of the following code?

```
import java.util.*;
class genericstack <E>
{
    Stack <E> stk = new Stack <E>();
}
```

```

        public void push(E obj)
    {
        stk.push(obj);
    }
    public E pop()
    {
        E obj = stk.pop();
        return obj;
    } }
public class Main
{
    public static void main(String args[])
    {
        genericstack <String> gs = new genericstack<String>();
        gs.push("Hello");
        gs.push(25);
        System.out.println(gs.pop());
    }
}

```

- a) **Compile Time Error: incompatible types**
- b) Compile Time Error: Stack class does not exist
- c) Compile Time Error: E is not defined
- d) No Compile Time Error

Q30. Which IO stream in Java is used to read or write primitive data types?

- a) BufferedDataInputStream and BufferedDataOutputStream
- b) **DataInputStream and DataOutputStream**
- c) BufferedInputStream and BufferedOutputStream
- d) FilteredDataInputStream and FilteredDataOutputStream

Q31 The InputStream class defines methods for performing input functions such as

- i) reading bytes
- ii) closing streams
- iii) skipping ahead in a stream
- iv) flushing streams

- A) ii, iii and iv only
- B) **i, ii and iii only**
- C) i, iii and iv only
- D) All i, ii, iii and iv

Q32 . Which of the following method(s) not included in InputStream class.

- A) available()
- B) reset()
- C) **flush()**
- D) close()

Q33. Which exception is thrown by the read( ) method of InputStream class.

- A) Exception
- B) **IOException**

- C) ReadException
- D) File Not Found Exception

Q34. Which of these packages contains all the collection classes?

- a) java.awt
- b) java.net
- c) **java.util**
- d) java.lang

Q35. What is Collection in Java?

- a. **A group of objects**
- b. A group of interfaces
- c. A group of classes
- d. None of the above

Q36. Which of these collection classes has the ability to scale dynamically?

- a) Array
- b) Arrays
- c) **ArrayList**
- d) All the answers are true

Q37. The interface Comparable contains the method \_\_\_\_\_

- a) toCompare
- b) compare
- c) **compareTo**
- d) compareWith

Q38. Which of the following Sets maintains the insertion order?

- a) HashSet
- b) TreeSet
- c) **LinkedHashSet**
- d) All the answers are true

Q39. Default capacity of an ArrayList is \_\_\_\_

- a) 12
- b) **10**
- c) 8
- d) 16

Q40. How many threads can a process contain?

- a) 1
- b) 2
- c) **Multiple**

d) None

Q41. `int values[ ] = {1,2,3,4,5,6,7,8,9,10};`  
`for(int i=0;i< Y; ++i)`  
`System.out.println(values[i]);`

Find the value of value[i]?

- a. 10
- b. 11
- c. 15
- d. None of the above

Q42

```
public class Hello {  
    public static void main(String[] args) {  
        PriorityQueue<Integer> queue = new PriorityQueue<>();  
        queue.add(11);  
        queue.add(10);  
        queue.add(22);  
        queue.add(5);  
        queue.add(12);  
        queue.add(2);  
        while (queue.isEmpty() == false)  
            System.out.println( queue.remove());  
    }  
}
```

- a) 11 10 22 5 12 2
- b) 2 12 5 22 10 11
- c) 2 5 10 11 12 22
- d) 22 12 11 10 5 2

Q43 `public class Hello {`  
`public static void main(String[] args) {`  
`TreeSet<String> treeSet = new TreeSet<>();`

```

        treeSet.add("Sky");
        treeSet.add("Is");
        treeSet.add("Blue");
        treeSet.add("SkyIsBlue");
        for (String temp : treeSet)
            System.out.print(temp + " ");
        System.out.println("\n");
    }
}

```

- A. Blue Is Sky SkyIsBlue
- B. Is Sky Blue SkyISblue
- C. Blue Sky Is
- D. SkyIsBlue

**Q44. What will be the output of the following code?**

```

public class hashSet {
    public static void main(String[] args)
    {
        HashSet<String> hashSet = new HashSet<>();
        hashSet.add("Hello");
        hashSet.add("For");
        hashSet.add("Hello");
        hashSet.add("Good");

        System.out.println(hashSet);
    }
}

```

- a) Hello For Good
- b) Hello For Hello Good
- c) Good Hello For Hello
- d) Hello Good Hello For

Q45.

```

import java.util.ArrayList;
class Demo {
    public void show()
    {
        ArrayList<Integer> list = new ArrayList<Integer>();
        list.add(4);
        list.add(7);
        list.add(1);
        for (int number : list) {
            System.out.print(number + " ");
        }
    }
}

```



```

    }
} public class Main {
public static void main(String[] args)
{
    Demo demo = new Demo();
    demo.show();
}
}

```

A. Compilation Error

**B. 4 7 1**

C. 1 4 7

D. None

**Q46** The OutputStream includes methods that are designed to perform the following tasks.

- i) closing streams
- ii) flushing streams
- iii) reading bytes
- iv) writing bytes

- A) ii, iii and iv only
- B) i, ii and iii only
- C) i, ii and iv only**
- D) All i, ii, iii and iv

**Q47** . Which of the following methods not included in OutputStream class.

- A) write()
- B) skip()**
- C) close()
- D) flush()

**Q48.** The ..... method of the BufferedReader class is used for reading lines of text from the console, the file or other input streams.

- A) read()
- B) read(byte[]b)
- C) readLine()**
- D) readByte()

**Q49.** Which of these classes is not part of the Collection framework in Java?

- a) Queue
- b) Stack
- c) ArrayList
- d) Map**

**Q50.** Which interface does not allow duplicates elements?

- a) Set**
- b) List
- c) Map
- d) All the answers are true

**Q51.** HashMap allows \_\_\_\_\_

- a) null values
- b) null key

c) All the answers are true

d) None of the above

**Q52.** Which of the following interfaces maintains the order in which the elements are inserted?

a) Set

b) List

c) Map

d) All the answers are true

**Q53.** Which class stores items as a key-value pair?

a) ArrayList

b) LinkedHashSet

c) TreeMap

d) TreeSet

**Q54.** Threads are

a) light weight process

b) heavyweight process

c) both

d) none

**Q55.** In character stream I/O, a single read/write operation performs \_\_\_\_\_.

a) Two bytes read/write at a time.

b) Eight bytes read/write at a time.

c) One byte read/write at a time.

d) Five bytes read/ write at a time.

### MCQ (2 Marks)

**Q56.** What is the output of this program?

```
import java.util.LinkedList;
```

```
class Demo {
```

```
public void show()
```

```
{
```

```
    LinkedList<String> list = new LinkedList<String>();
```

```
    list.add("Element1"); // line 6
```

```
    list.add("Element2");
```

```
    System.out.print(list.getFirst()); // line 8
```

```

    }
} public class Main {
    public static void main(String[] args)
    {
        Demo demo = new Demo();
        demo.show();
    }
}

```

A. Element1

B. Compilation Error at line 8

C. Runtime Error

D. Element2

Q57. import java.util.ArrayList;

```

class Demo {
    public void show()
    {
        ArrayList<String> list = new ArrayList<String>();
        list.add("GeeksForGeeks_one"); // line 6
        list.add("GeeksForGeeks_two");
        System.out.print(list.getFirst()); // line 8
    }
} public class Main {
    public static void main(String[] args)
    {
        Demo demo = new Demo();
        demo.show();
    }
}

```

A. GeeksForGeeks\_one

## B. Compilation Error

### C. Runtime Error

Q58

```
import java.util.*;
class Demo {
    public void show()
    {
        List<Integer> list = new LinkedList<Integer>();
        list.add(1);
        list.add(4);
        list.add(7);
        list.add(5);
        Collections.sort(list); // line 8
        System.out.println(list);
    }
}
public class Main {
    public static void main(String[] args)
    {
        Demo demo = new Demo();
        demo.show();
    }
}
```

A. Compilation Error at line 9

B. [1, 4, 5, 7]

C. [1, 4, 7, 5]

D. Runtime Error

**Q59. What will be the output of the following code?**

```
import java.util.*;

public class linkedList {
    public static void main(String[] args)
    {
        List<String> list1 = new LinkedList<>();
        list1.add("Hello");
        list1.add("For");
        list1.add("Hello ");
        list1.add("ABC");
        list1.add("HelloForHello ");

        List<String> list2 = new LinkedList<>();
        list2.add("Hello");

        list1.removeAll(list2);
    }
}
```

```

        for (String temp : list1)
            System.out.print(temp + " ");

        System.out.println();
    }
}

```

- a) For ABC HelloForHello
- b) Hello ABC Hello
- c) ABC Hello ABC
- d) Hello Helo

Q60.

```
import java.util.*;
```

```

public class Hello {
    public static void main(String[] args) {
        LinkedHashSet<Integer> set = new LinkedHashSet<>();
        set.add(1);
        set.add(2);
        set.add(2);
        set.add(4);

        for (int temp : set)
            System.out.print(temp + " ");

        System.out.println("\n");
    }
}

```

- a) 1 2 4
- b) 1 2 2 4
- c) 4 2 2 1
- d) Compile-time error

Q61. Which of the following is true about Generics in Java?

- a) Generics is used to create objects of a class.
- b) Generics helps in writing type-safe code.**
- c) Generics is used to convert data types.
- d) Generics can only be used with primitive data types.

Q62. Which of the following is an example of Generics in Java?

- a) **ArrayList**
- b) Integer
- c) Character
- d) Float

Q63. Which of the following is a syntax for defining a generic method in Java?

- a) **<T> void myGenericMethod(T item) {}**
- b) void myGenericMethod<T>(T item) {}
- c) void myGenericMethod(T item) {}
- d) <T: E> void myGenericMethod(T item) {}

Q64. Which of the following is a syntax for defining a Generic Interface in Java?

- a) **interface MyGenericInterface<T> {}**
- b) interface MyGenericInterface<T, E> {}
- c) interface MyGenericInterface(T) {}
- d) interface MyGenericInterface<T: E> {}

Q65. What is an Iterator in Java?

- a) An interface that represents a group of objects
- b) An interface that represents a single object
- c) An interface that represents a primitive data type
- d) **An interface that allows iterating over a collection**

Q66. Which of the following is a syntax for implementing the Comparable interface in Java?

- a) class MyClass<T extends Comparable<T>> implements Comparable<MyClass<T>> {}
- b) **class MyClass<T> implements Comparable<MyClass<T>> {}**
- c) class MyClass<T extends Comparator<T>> implements Comparable<MyClass<T>> {}
- d) class MyClass<T extends Comparable> implements Comparable<MyClass<T>> {}

Q67. What is Comparable in Java?

- a) **An interface that allows sorting of objects based on their natural order**
- b) An interface that allows sorting of objects based on a custom order
- c) A class that allows sorting of objects based on their natural order
- d) A class that allows sorting of objects based on a custom o

Q68 What is an IO Stream in Java?

- a) **A continuous flow of data**
- b) A physical layer that links to a stream
- c) A class that reads data from a source
- d) A class that writes data to a destination

Q69. Which of the following is a syntax for creating a Stack in Java?

- a) `Stack myStack = new Stack();`
- b) **`Stack<String> myStack = new Stack<String>();`**
- c) `Stack myStack = new Stack<String>();`
- d) `Stack<String> myStack = new Stack();`

Q70. What is the purpose of JDBC in Java?

- a) **To provide a standard abstraction for Java applications to communicate with various databases**
- b) To provide a standard abstraction for Java applications to communicate with various internet protocols
- c) To provide a standard abstraction for Java applications to communicate with various file systems
- d) To provide a standard abstraction for Java applications to communicate with various operating systems

Q71. What is the output of the following code snippet?

```
List<Integer> myList = new ArrayList<>();
```

```
myList.add(1);  
myList.add(2);  
myList.add(3);  
myList.remove(2);  
System.out.println(myList);
```

- a) [1, 2, 3]
- b) [1, 2]**
- c) [1, 3]
- d) [2, 3]

Q72. What is the output of the following code snippet?

```
Set<Integer> mySet = new HashSet<>();  
mySet.add(1);  
mySet.add(2);  
mySet.add(3);  
mySet.add(1);  
System.out.println(mySet.size());
```

- a) 1
- b) 2
- c) 3**
- d) 4

Q73. What will be the output of the following code snippet?

```
Map<String, Integer> map = new HashMap<>();  
map.put("John", 25);  
map.put("Mary", 30);  
map.put("Peter", 35);  
System.out.println(map.get("Mary"));
```

- a) 25
- b) 30**
- c) 35
- d) null

Q74. What will be the output of the following Java code?



```

class GenericsExample {
    public static void main(String[] args) {
        GenericClass<Integer> gc1 = new GenericClass<>(10);
        GenericClass<String> gc2 = new GenericClass<>("Hello");

        System.out.println(gc1.getData());
        System.out.println(gc2.getData());
    }
}

```

```

class GenericClass<T> {
    private T data;

    public GenericClass(T data) {
        this.data = data;
    }

    public T getData() {
        return data;
    }
}

```

- a) **10 Hello**
- b) Hello 10
- c) Error
- d) None of the above

Q75.What will be the output of the following Java code?

```

import java.util.*;

public class CollectionsExample {
    public static void main(String[] args) {
        List<Integer> list1 = new ArrayList<>(Arrays.asList(1, 2, 3));
        List<Integer> list2 = new ArrayList<>(Arrays.asList(4, 5, 6));

        Collections.copy(list1, list2);

        System.out.println(list1);
    }
}

```

- a) [1, 2, 3]
- b) [4, 5, 6]**
- c) [4, 5, 6, null, null, null]

d) Error

Q76.What are generics in Java?

- a) A type of data structure
- b) A type of programming language
- c) A type of algorithm
- d) A way to create classes that work with different data types**

Q77.What is a generic class in Java?

- a) A class that can work with different types of objects**
- b) A class that can only work with one type of object
- c) A class that can only work with primitive data types
- d) A class that can only work with Strings

Q78.What is the Java Collections Framework?

- a) A set of classes and interfaces implementing complex collection data structures**
- b) A set of classes and interfaces implementing simple collection data structures
- c) A set of classes and interfaces implementing complex algorithms
- d) A set of classes and interfaces implementing simple algorithms

Q79.Which interface represents a collection that does not allow duplicate elements?

- a) Set**
- b) Map
- c) List
- d) Queue

Q80. What is an Iterator in Java?

- a) An interface that represents a group of objects
- b) An interface that represents a single object
- c) An interface that represents a primitive data type
- d) An interface that allows iterating over a collection**

Q81 .What is a Map in Java?

- a) An ordered collection of elements that can contain duplicates

- b) An unordered collection of elements that cannot contain duplicates
- c) A collection that orders its elements in a first-in, first-out (FIFO) manner
- d) A collection that maps keys to values**

Q82. What is Comparable in Java?

- a) An interface that allows sorting of objects based on their natural order**
- b) An interface that allows sorting of objects based on a custom order
- c) A class that allows sorting of objects based on their natural order
- d) A class that allows sorting of objects based on a custom o

Q83 What is an IO Stream in Java?

- a) A continuous flow of data**
- b) A physical layer that links to a stream
- c) A class that reads data from a source
- d) A class that writes data to a destination

Q84. What is JDBC in Java?

- a) A Java API to connect and execute queries with the database**
- b) A Java API to connect and execute queries with the internet
- c) A Java API to connect and execute queries with the file system
- d) A Java API to connect and execute queries with the operating system

Q85. What is the purpose of JDBC in Java?

- a) To provide a standard abstraction for Java applications to communicate with various databases**
- b) To provide a standard abstraction for Java applications to communicate with various internet protocols
- c) To provide a standard abstraction for Java applications to communicate with various file systems
- d) To provide a standard abstraction for Java applications to communicate with various operating systems

Q86. What will be the output of the following program?

```
List<Integer> list = new ArrayList<>();  
list.add(10);  
list.add(20);  
list.add(30);  
list.add(40);  
System.out.println(list.get(2));
```

- a) 10
- b) 20
- c) 30**
- d) 40

Q87. What will be the output of the following program?

```
Set<String> set = new HashSet<>();  
set.add("apple");  
set.add("banana");  
set.add("orange");  
set.add("apple");  
System.out.println(set.size());
```

- a) 1
- b) 2
- c) 3**
- d) 4

Q88. What will be the output of the following code snippet?

```
Map<String, Integer> map = new HashMap<>();  
map.put("John", 25);  
map.put("Mary", 30);  
map.put("Peter", 35);  
System.out.println(map.get("Mary"));
```

- a) 25
- b) 30**
- c) 35
- d) null

Q89 What will be the output of the following Java code?

```

class GenericsExample {
    public static void main(String[] args) {
        GenericClass<Integer> gc1 = new GenericClass<>(10);
        GenericClass<String> gc2 = new GenericClass<>("Hello");

        System.out.println(gc1.getData());
        System.out.println(gc2.getData());
    }
}

```

```

class GenericClass<T> {
    private T data;

    public GenericClass(T data) {
        this.data = data;
    }

    public T getData() {
        return data;
    }
}

```

- a) **10 Hello**
- b) Hello 10
- c) Error
- d) None of the above

Q90.What will be the output of the following Java code?

```

import java.util.*;

public class CollectionsExample {
    public static void main(String[] args) {
        List<Integer> list1 = new ArrayList<>(Arrays.asList(1, 2, 3));
        List<Integer> list2 = new ArrayList<>(Arrays.asList(4, 5, 6));

        Collections.copy(list1, list2);

        System.out.println(list1);
    }
}

```

- a) [1, 2, 3]
- b) **[4, 5, 6]**

- c) [4, 5, 6, null, null, null]
- d) Error