MOCK EXAM 1

Mock Exam-1

- QUESTION 1
 - Q 1: Which of the following statements are correct for variable length arguments?
 - The variable length arguments should be the single argument in a method's argument list. B. The variable length arguments should be first argument in a method's argument list.

 - The variable length arguments should be last argument in a method's argument list.
 - D. The variable length arguments can be used at any place in a method's argument list.
- **QUESTION 2**
 - Imagine you are working as a software engineer and you have written the following program: O 2:

```
import j ava.util.*;
public class TestQuestion {
    public static void main(String[] args) {
        List <String> mylist = new ArrayList<String>();
        mylist.add("niraj");
        mylist.add("kumar");
        mylist.add("verma");
        Collections.sort(mylist);
        System out println(mylist);
                                                               System. out. println(mylist);
                                }
 }
```

What will be the output when the preceding program is compiled and executed?

- The program will display the output as: [kumar, niraj, verma] B. The program will generate compilation error.
- C. The program will display the output as: [niraj, kumar, verma]
- D. The program will throw a runtime exception.
- **QUESTION 3**
 - Q 3: Imagine that you are a Java programmer and during a lab session you have written a program as:

```
class Test {
int a;
Test(int i) {
Test inc( ) {
Test temp = new Test(a+10);
return temp;
class TestQuestion {
public static void main(String s[]) {
Test ref1 = new Test(10);
Test ref2;
ref2 = ref1.inc();
System.out.println(ref1.a);
System.out.println(ref2.a);
ref2 = ref1.inc();
System. out. println(ref2. a);
```

- A. The program will display the output as:
- B. The program will generate compilation error.

- 10 10
- The program will display the output as:
- D. The program will throw a runtime exception.

10 20

20

QUESTION 4

Q 4: Imagine that you are a software programmer and write code for students. During one of the courses you have written the following code:

```
class TestQuestion {
  static int i = 10;
  static {
   i+= 10;
  }
  public static void main(String s[]) {
   System.out.println("i:" +i);
  }
  Static {
  i+=12;
  }
}
```

What will be the output when the preceding program is compiled and executed?

- A. The program will display the output as: i-32
- By The program will generate compilation error.
- The program will display the output as: i:10
- D. The program will throw a runtime exception.

QUESTION 5

Q 5: Imagine that you are a software programmer and write code for students. During one of the courses you have written the following code:

```
class UseStatic {
    static int a=3;
    static int b;
static void meth(int x) {
    System.out.println("x = " + x);
    System.out.println("a = " + a);
    System.out.println("b = " + b);
}
static {
    System.out.println("Static block initialized.");
    b = a * 4;
}
public static void main(String args[]) {
    meth(42);
}
```

What will be the output when the preceding program is compiled and executed?

The program will display the output as: Static block initialized.

B. The program will generate compilation error.

x = 42a = 3b = 12

C. The program will display the output as: Static block initialized.

D. The program will throw a runtime exception.

x = 42a = 12

b = 3



Q 6: What will be the output when the following program is executed?

```
class TestQuestion {
String s1 = "overloading main Strng s[]";
String s2 = "overloading main int s[]";
public static void main(String args[]) {
System.out.println("inside main 1");
}
public static void main(int args[]) {
System.out.println("inside main 2");
}
}
```

- A. The program will display the output as: inside main 2
- The program will display the output as: inside main 1
- B. The program will generate compilation error.
- D. The program will throw a runtime exception.

QUESTION 7

Q 7: Which of the following collections allows priority-based access, which is either user defined or in natural order?

A. TreeSet B. Queue

C. List

PriorityQueue

QUESTION 8

Q 8: Imagine that you have declared two classes as shown in the following code:

```
class TestQuestion {
    int test(int[]... vars) {
    int sum =0;
    for(int i=0;i<vars.length;i++) {
    for(int j=0;j<vars[i].length;j++) {
        sum = sum + vars[i][j];
    }
}
return sum;
}
public static void main(String s[]) {
    TestQuestion ob = new TestQuestion();
    int sum = ob.test(new int [] {1, 2, 3, 4}, new int[] {4,5,6});
    System.out.println(sum);
}</pre>
```

What will be the output when the preceding program is compiled and executed?

- A The program will display the output as: 25 The program will display the output as: 10
- B. The program will generate compilation error.
- D. The program will throw a runtime exception.

QUESTION 9

Q 9: Imagine that you are a software developer in a company. During a training session for new hires you have demonstrated the following program:

```
class TestQuestion {
public static void main(String s[ ]) {
    for(int p=1 ; p<=2; p++) {
        for(int q=1; q<=3; q++) {
        if(p==q)
        continue;
        System. out. print(+p);
        System. out. println(+q);
        }
}</pre>
```

- The program will display the output as: B. The program will generate compilation error. 11 13 11 31 C. The program will display the output as: The program will display the output as: 11 12 12 13 11 21 21 23
- **QUESTION 10**
 - Q 10: Imagine that you are a freelance course coordinator for programmers. In one of your class, you have analyzed the following code:

```
class TestQuestion implements Runnable {
public void start() {
System.out.println("start");
public static void main(String s[]) {
TestQuestion ob = new TestQuestion();
Thread th = new Thread();
th.start();
```

- A. The program will display the output as: start
- The program will generate compilation error.
- The program will compile and execute successfully, but no output will be shown.
- D. The program will throw a runtime exception.

QUESTION 11

Q 11: Maria is reading a book on Lava programming. In one of the chapters, she found the following program:

```
class DemoTest {
private DemoTest() {
System.out.println("in constructor");
class TestQuestion extends DemoTest {
public static void main(String s[]) {
TestQuestion obj = new TestQuestion();
```

- A. The program will display the output as: in constructor
- The program will generate compilation error.
- B. The program will generate computation cross.

 C. The program will compile and execute successfully, but no output will be shown.
- **QUESTION 12**
 - Q 12: In a popular workbook for programmers, a program was found written as:

```
class TestQuestion {
public static void main(String s[]) {
Integer i1 = new Integer(10);
Integer i2 = new Integer(10);
System.out.println(i1==i2);
```

```
System.out.println(i1.hashCode() == i2.hashCode());
}
```

- $A. \ \ \, \text{The program will display the output as:}$
- B. The program will generate compilation error.

true true

The program will display the output as: false

D. The program will display the output as: false false

QUESTION 13

Q 13: Jones is a software developer in an MNC. In one of his projects he wrote a program as:

```
class TestQuestion {
  static int a = 10;
  public static void main(String s[]) {
    TestQuestion ob = new TestQuestion();
    ob. test(20);
  }
  static {
    System.out.println(a);
  }
  static void test(int a) {
    a+= 12;
    System.out.print(a);
  }
}
```

What will be the output when the preceding program is compiled and executed?

The program will display the output as:

B. The program will generate compilation error.

32

C. The program will display the output as: 20

D. The program will display the output as: 20

32

32 ON 44

QUESTION 14

Q 14: Jennie is a software developer in an MNC. In one of her projects, she wrote a program as:

```
class TestQuestion {
public static void main(String s[]) {
Boolean a = new Boolean("false");
if(a) {
System.out.println("false");
}
else {
System.out.println("true");
}
}
```

- A. The program will display the output as: false
- B. The program will generate compilation error.
- The program will display the output as:

 True
- D. The program will throw a runtime exception.

Q 15: Jennie is a software developer in an MNC. In one of her projects, she wrote a program as:

```
class TestOuestion {
public static void main(String s[]) {
    Integer i = new Integer(9);
    Integer j = new Integer(13);
    Integer k = i + j;
    System.out.println (k);
}

// error prior to JDK 1.5
```

Which of the following reason is behind the successful execution of the preceding program?

A. Overloading

B. Overriding



D. Casting

QUESTION 16

Q 16: Jennie is a software developer in an MNC. In one of her projects she wrote a program as:

What will be the output when the preceding program is compiled and executed?

The program will display the output as:

1
2

B. The program will generate compilation error.

2 red blue

C. The program will display the output as:

D. The program will display the output as: fish fish

2 fish fish

fish fish

QUESTION 17

Q 17: Jennie is a software developer in an MNC. In one of her projects she wrote a program as:

```
import java.util.*;
class TestQuestion {
    String input = "hi maria hi dick hi all";
    Scanner s = new Scanner(input).useDelimiter("\\s*hi\\s*");
    System.out.println(s.nextInt());
    System.out.println(s.nextInt());
    System.out.println(s.next());
    System.out.println(s.next());
    System.out.println(s.next());
    System.out.println(s.next());
    System.out.println(s.next());
    s.close();
}
```

What will be the output when the preceding program is compiled and executed?

A. The program will display the output as: maria dick

B. The program will generate compilation error.

all

C. The program will display the output as:
hi
hi
hi
OUESTION 18

Q 18: Tom and Jerry are students of software programming. In one of the lab manual, they found a program as:

```
import j ava.util.*;
class TestQuestion {
public static void main(String args[]) {
   String input = "hi maria hi dick hi all";
   Scanner s = new Scanner(input).useDelimiter("\\s*hi\\s*");
   System.out.println(s.next());
   System.out.println(s.next());
   System.out.println(s.next());
   s.close();
}
```

What will be the output when the preceding program is compiled and executed?

The program will display the output as:

maria
dick

B. The program will generate compilation error.

C. The program will display the output as:

D. The program will throw a runtime exception.

hi
QUESTION 19

hi

Q 19: Jennie is a software developer in an MNC. In one of her projects, she wrote a program as:

```
import java.util.*;
class TestQuestion {
public static void main(String args[]) {
   Boolean b1 = new Boolean(true);
   Boolean b2 = false;
if(b1.equals(b2))
System.out.println("equal");
else
System.out.println("not-equal");
}
```

What will be the output when the preceding program is compiled and executed?

- A. The program will display the output as:
- B. The program will generate compilation error.
- The program will display the output as: not-equal
- D. The program will throw a runtime exception.

QUESTION 20

Q 20: What happens when a constructor is not defined for a user-defined class?

- A. You cannot instantiate the class.
- B. There is a default constructor, which takes arguments of the same type as the data members in order.
- C. There is a default constructor which initializes data members of the class with the default values.
- There is a default constructor which does not initialize the data members of the class.

Q 21: Jennie is a software developer in an MNC. In one of her projects, she wrote a program as:

```
class TestQuestion {
public static boolean funcA(int a) {
boolean b = (a==10)?true: false;
System. out. println(b);
return b;
public static void main(String args[]) {
if(funcA(10) && funcA(5))
System. out. println("pass");
}
```

What will be the output when the preceding program is compiled and executed?

The program will display the output as: true

- B. The program will generate compilation error.
- C. The program will display the output as: pass
- D. The program will throw a runtime exception.

QUESTION 22

false

Q 22: Jaya is a software developer in an MNC. In one of her projects, she wrote a program as:

```
class MyClass implements Runnable {
void run(String str) {
System. out. println(str);
}
class TestQuestion {
public static void main(String s[]) {
MyClass obj = new MyClass();
Thread t = new Thread(obj);
```

What will be the output when the preceding program is compiled and executed?

- A. The program will display the output as: str
- B. The program will generate compilation error.
- The program will throw a runtime exception. The program will compile and execute successfully, but no output will be shown.

QUESTION 23

Q 23: Jennie is a software developer in an MNC. In one of her projects she wrote a program as:

```
class TestQuestion {
int funcA(int a , int b) {
System.out.println(a + b);
char temp = 'a';
return temp;
public static void main(String s[]) {
TestQuestion obj = new TestQuestion();
obj.funcA(1, 2);
```

What will be the output when the preceding program is compiled and executed?

The program will display the output as: 3 The program will display the output as: 3 1

- B. The program will generate compilation error.
- D. The program will display the output as:

3

9



Jaya is a software developer in an MNC. In one of her projects she wrote a program as:

```
class TestQuestion {
  static char x, y;
  public static void main(String s[]) {
   int sum = x+y;
  System.out.println(sum);
}
```

During compilation and execution of the preceding program, what will happen?

- A. The program will compile and execute successfully, but no output will be shown.
- B. The program will generate compilation error.
- The program will display the output as: 0
- D. The program will throw a runtime exception.

QUESTION 25

Q 25: Parul is a software developer in an MNC. In one of her projects, she wrote a program as:

```
class TestQuestion {
/* insert code here */
```

Which of the following options can be inserted at the specified comment line as /* insert code here */?

- A. x(int z..., int y)
- B. abstract x()
- C. final()
- TestQuestion(int x , int y)

QUESTION 26

Tom and Jerry are software developers in an MNC. In one of the projects, they wrote a program as: Q 26:

```
interface MyInterface {
public void method1();
public void method2();
class Test implements MyInterface
                                                                      //1
public void method1() {
class TestQuestion extends Test implements MyInterface
                                                                         //2
public static void main(String s[])
{}
public void method2()
```

What will be the output when the preceding program is compiled and executed?

- The program will compile and execute successfully, but no output will be shown.

 B. The program will generate compilation error at the line marked as //2.
- C. The program will generate compilation error at the line marked as //1.
- D. The program will throw a runtime exception.

QUESTION 27

Q 27: Jennie is a software developer in an MNC. In one of her projects, she wrote a program as:

```
class Block1 {
Block1() {
System.out.println("in Block1");
```

```
class Block2 extends Block1 {
Block2() {
System.out.println("in Block2");
public class TestQuestion extends Block2 {
TestQuestion()
restruestion() {
System.out.println("in TestQuestion");
public static void main(String s[]) {
new TestQuestion();
```

The program will display the output as: in Block1

B. The program will generate compilation error.

in Block2 in TestOuestion

C. The program will display the output as: in Block2

D. The program will throw a runtime exception.

in Block1 in TestQuestion

QUESTION 28

Q 28: Which of the following statements are correct?

A The DateFormat class is used to format dates.

B. The Calendar class belongs to text package

- C. The Locale class is used to format date and numbers
- D. The Date class is used to bridge the gap between the Calendar and DateFormat classes.

QUESTION 29

Q 29: Hari is a software developer in an MNC. In one of his projects, he wrote a program as:

```
class TestQuestion {
public static void main(String s[]) {
int num1 = 0102;
int num2 = -10;
int operation = num1 % num2;
System.out.println(+operation);
```

What will be the output when the preceding program is compiled and executed?

The program will display the output as: 6

- B. The program will generate compilation error.
- The program will display the output as:
- D. The program will throw a runtime exception.

QUESTION 30

Q 30: Maya is a software developer in an MNC. In one of her projects she wrote a program as:

```
class TestQuestion {
public static void main(String s[]) {
System.out.println(s[0] + s[1]);
```

What will be the output when the preceding program is run with the following command line argument:

>java TestQuestion 12 24

- A. The program will display the output as:
- The program will display the output as: 1224
- B. The program will generate compilation error.
- D. The program will throw a runtime exception.

QUESTION 31

Which of the following statements are correct about the Pattern class?

- A. It is a not final class.
- B. It's compile(). method is used to create a pattern.
- D. It is a member of java.text package. It is used to create and define regular expression.

QUESTION 32

Q 32: Jennie is a software developer in an MNC. In one of her projects, she wrote a program as:

```
class TestOuestion implements Runnable {
public void start() {
System.out.println("Executing start method");
public static void main(String s[]) {
Thread th = new Thread();
th.start();
```

What will be the output when the preceding program is compiled and executed?

- A. The program will display the output as: Executing start method
- The program will generate compilation error.
- D. The program will throw a runtime exception. The program will compile and execute successfully, but no output will be shown.

QUESTION 33

Q 33: Jennie is a software developer in an MNC. In one of her projects, she wrote a program as:

```
class TestQuestion extends Thread {
public void run() {
System.out.println("calculating run method");
public static void main(String s[]) {
Thread th = new Thread();
th.start();
```

What will be the output when the preceding program is compiled and executed?

- A. The program will display the output as: calculating run method
- B. The program will generate compilation error.
- The program will compile and execute successfully, but no output will be shown.
- **Y**. The program will throw a runtime exception.

QUESTION 34

Q 34: Hemant works as a Programmer for SoftTech In. He writes the following program:

```
class TestQuestion extends Thread {
public void run() {
```

```
System. out. println("calculating run method");
public static void main(String s[]) {
TestQuestion th = new TestQuestion();
th. start();
```

- A The program will display the output as: calculating run method
- The program will generate compilation error.
- C. The program will compile and execute successfully, but no output will be shown.
- D. The program will throw a runtime exception.

QUESTION 35

Q 35: Maria organizes software classes for the students. In one of her class she wrote a program as:

```
class TestQuestion implements Runnable {
public void run() {
System.out.println("run() method is invoked");
public static void main(String ar[]) {
TestQuestion ob = new TestQuestion();
Thread th = new Thread(ob);
th.start();
```

What will be the output when the preceding program is compiled and executed?

- A. The program will compile and execute successfully, but no output will be shown.
- B. The program will generate compilation error.
- The program will display the output as: run() method is invoked
- D. The program will throw a runtime exception.

QUESTION 36

Q 36: Jennie is a software developer in an MNC. In one of her projects, she wrote a program as:

```
import j ava.util.*;
class TestQuestion {
Dublic static void main(String s[]) {
List<String> alist = new ArrayList<String>();
alist.add("7");
alist.add(1)
alist.add(true):
Collections. sort(alist)
System. out. println(alist);
```

What will be the output when the preceding program is compiled and executed?

- A. The program will display the output as: [Z 1 true]
- By The program will generate compilation error.
- The program will display the output as: Z
- D. The program will throw a runtime exception.

True **QUESTION 37**

1

Q 37: Maria organizes software classes for the students. In one of her class, she wrote a program as:

```
import j ava.util.*;
class TestQuestion {
```

```
public static void main(String s[]) {
List alist = new ArrayList ();
alist.add("Z");
alist.add(1);
alist.add(true);
Collections.sort(alist)
System. out. println(alist);
```

A. The program will display the output as:

[Z 1 true]

The program will generate compilation error.

The program will display the output as:

Z 1

D. The program will throw a runtime exception with warning message.

QUESTION 38

Q 38: John is a software developer in an MNC. In one of his projects he wrote a program as:

```
import java.text.DateFormat;
import java.util.Date;
public class TestQuestion{
public static void main(String[] args) {
Date now = new Date();
System. out. println(now. toString());
```

What will be the output when the preceding program is compiled and executed?

A The program will display the current date and time. B. The program will generate compilation error.

- C. The program will compile and execute successfully, but no output will be shown.
- D. The program will throw a runtime exception.

QUESTION 39

Q 39: Joy is a software developer in an MNC. In one of his projects, he wrote a program as:

```
import java.text.DateFormat;
import java.util.Date;
public class TestQuestion{
public static void main(String[] args) {
Date now = new Date();
System. out. println(DateFormat.getInstance().format(now));
```

What will be the output when the preceding program is compiled and executed?

A The program will display the current date and time, in a formatted way. B. The program will generate compilation error.

- C. The program will compile and execute successfully, but no output will be shown.
- D. The program will throw a runtime exception.

QUESTION 40

Q 40: Jennie is a software developer in an MNC. In one of her projects, she wrote a program as:

```
import java.text.DateFormat;
import java.util.Date;
public class TestQuestion{
public static void main(String[] args) {
```

```
Date now = new Date();
System.out.println(DateFormat.getTimeInstance(DateFormat.SHORT).format(now));}}
```

- A. The program will display the current date and time, in a formatted way.
- B. The program will generate compilation error.
- C. The program will display the current date, in a formatted way.
- D/ The program will display the current time, in the SHORT formatted way.

QUESTION 41

Q 41: John is a software developer in an MNC. In one of his projects, he wrote a program as:

```
import j ava. text. DateFormat;
import j ava. util. Date;
public class TestQuestion{
public static void main(String[] args) {
  Date now = new Date();
  System. out. println(DateFormat. getTimeInstance(DateFormat. MEDIUM). format (now));
  }
}
```

What will be the output when the preceding program is compiled and executed?

- A. The program will display the current date and time, in a formatted way.
- B. The program will generate compilation error.
- C. The program will display the current date, in a formatted way.
- The program will display the current time, in the MEDIUM formatted way.

QUESTION 42

Q 42: Karun is a software developer in an MNC. In one of his projects, he wrote a program as:

```
import java.text.DateFormat;
import java.util.Date;
public class TestQuestion{
public static void main(String[] args) {
Date now = new Date();
System.out.println(DateFormat.getTimeInstance(DateFormat.LONG).format(now));
}
}
```

What will be the output when the preceding program is compiled and executed?

- A. The program will display the current date and time, in a formatted way.
- B. The program will generate compilation error.
- C. The program will display the current date, in a formatted way.
- The program will display the current time, in the LONG formatted way.

QUESTION 43

Q 43: Maya is a software developer in an MNC. In one of her projects, she wrote a program as:

```
import j ava. text. DateFormat;
import j ava. util. Date;
public class TestQuestion{
   public static void main(String[] args) {
        // Make a new Date object. It will be initialized to the current time.
        Date now = new Date();
        // See what toString() returns
        System. out. println(" 1. " + now. toString());
        DateFormat dt = new DateFormat();
   }
}
```

What will be the output when the preceding program is compiled and executed?

A. The program will compile and execute successfully, but no output will be shown.

- The program will generate compilation error.

 C. The program will display the output as 1 follows:
- The program will display the output as 1 followed by current date and time.
- D. The program will throw a runtime exception.

Q 44: Neil is a software developer in an MNC. In one of his projects he wrote a program as:

```
import j ava. text. DateFormat;
import j ava. util. Date;
public class TestQuesti on{
   public static void main(String[] args) {
      // Make a new Date object. It will be initialized to the current time.
      Date now = new Date();
                      // See what toString() returns
System.out.println(" 1. " + now.toString());
DateFormat dt = new DateFormat();
           }
}
```

What will be the output when the preceding program is compiled and executed?

- A. The program will compile and execute successfully, but no output will be shown.
- The program will generate compilation error.
- The program will display the output as 1 followed by current date and time.
- D. The program will throw a runtime exception.

QUESTION 45

Which of the following statements are correct about initialization blocks?

- A. Initialization blocks run every time a class is loaded.
- Static initialization run only once.
- D. Initialization blocks execute in the order of appearance.

QUESTION 46

Jyoti is a software developer in an MNC. In one of her projects she wrote a program as:

```
public class TestQuestion{
         public static void main(String[] args) {
   String str = "PQR";
                   int len = str.length();
                  switch (len)
                            ich (len) {
   case 1:    System.out.println("January");    break;
   case 2:    System.out.println("February");    break;
   case 3:    System.out.println("March");    break;
   default:    System.out.println("Invalid month.");    break;
                   }
         }
}
```

What will be the output when the preceding program is compiled and executed?

- The program will display the output as:
- B. The program will generate compilation error.
- C. The program will display the output as: January
- D. The program will throw a runtime exception.

QUESTION 47

Q 47: Jennie is a software developer in an MNC. In one of her projects, she wrote a program as:

```
class Test{
static Test msg() return new Test();
class TestQuestion extends Test {
```

```
static TestQuestion msg(String s) {
System.out.println(s);
return new TestQuestion();
}
public static void main(String s[]) {
msg("hello");
System.out.println("niraj");
}
}
```

- The program will display the output as: hello niraj
- C. The program will display the output as: niraj hello
- D. The program will throw a runtime exception.

B. The program will generate compilation error.

QUESTION 48

Q 48: Maya is a programmer and in a lab session she has declared an interface as:

```
interface MyInterface {
int funcA(int a);
int funcB(String s);
}
```

Which of the following code snippets are syntactically correct to use MyInterface?

- A. class test implements MyInterface{}
- B. interface your interface extends MyInterface{}
- C. interface yourinterface implements myinterface
- D. None of these

QUESTION 49

Q 49: Maya is a software engineer and she has written a program as:

```
class TestOuestion {
public static void main(String s[]) {
  try {
  int x = 6/0;
  }
  catch(Exception e) {
   System.out.println("Exception: "+e);
  }
  catch(ArithmeticException e1) {
   System.out.println("Arithmetic Exception: "+e1);
  }
}
```

What will be the output when the preceding program is compiled and executed?

- A. The program will display the output as: 0
- B/ The program will generate compilation error.
- C. The program will compile and execute successfully, but no output will be shown.
- D. The program will throw a runtime exception.

QUESTION 50

Q 50: Neha works as a Programmer for Kogent Solutions Inc. She writes the following program:

```
class TestQuestion {
public static void main(String s[]) {
  try {
  int x = 6/0;
  }
  catch(ArithmeticException e1) {
```

```
System.out.println("Arithmetic Exception is thrown");
```

- Af The program will display the output as: Arithmetic Exception is thrown
- The program will generate compilation error.
- C. The program will display the output as: 0
- D. The program will compile and execute successfully, but no output will be shown.

QUESTION 51

Q 51: Which of the following events are susceptible for throwing an exception?

- Dividing any number by 0
- B. Attempt to search array beyond index position
- A Dividing any number z_j .

 C. trying to open a file which does not exists
- D. attempt to add two integer objects by + operator

QUESTION 52

Q 52: In a textbook, a student found a program as:

```
interface A{}
class superclass implements A
class TestQuestion extends superclass {
public static void main(String s[]) {
   superclass superob = new superclass();
   TestQuestion subob = new TestQuestion();
   System.out.println(superob instanceof A);
   System.out.println(superob instanceof TestQuestion);
System.out.println(subob instanceof A);
```

What will be the output when the preceding program is compiled and executed?

The program will display the output as:

B. The program will generate compilation error.

true false true

true

C. The program will display the output as: false

D. The program will throw a runtime exception.

false **QUESTION 53**

Q 53: In a lab manual, a student found one program as:

```
interface | {
   void m1();
class TestQuestion implements I {
public void m1(){ System.out.println("hi");}
public static void main(String... a){new TestQuestion().m1();}
```

- ⚠ The program will display the output as: hi
- B. The program will generate compilation error.
- C. The program will compile and execute successfully, but no output will be shown.
- D. The program will throw a runtime exception.

Q 54: Maya works as a Programmer in a MNC. She writes the following program:

```
interface I {
void m1();
}
class TestQuestion implements I {
void m1(){ System.out.println("hi");}
public static void main(String... a){new
TestQuestion().m1();}
}
```

What will be the output when the preceding program is compiled and executed?

- A. The program will display the output as: hi
- B The program will generate compilation error.
- C. The program will compile and execute successfully, but no output will be shown.
- D. The program will throw a runtime exception.

QUESTION 55

Q 55: Mahima works as a Programmer in a MNC. She writes the following program:

```
class TestQuestion {
public static void main(String s[]) {
  try {
  for(int i=0;i<5;++i) {
    System.out.println(s[i]);
  }
} catch(ArrayIndexOutOfBoundsException e) {
    System.out.println("Exception Generated: "+e);
  }
  finally
  {}
}</pre>
```

What will happen if the preceding program is compiled successfully, and executed by the following command line:

```
java TestQuestion niraj
```

A. The program will display the output as: niraj

Exception Generated: java.lang.ArrayIndexOutOfBoundsException: 1

The program will display the output as:

 $Exception\ Generated: java.lang. ArrayIndexOutOfBounds Exception:\ 1$

- C. The program will display the output as: niraj
- D. The program will compile and execute successfully, but no output will be shown.

QUESTION 56

Q 56: Which of the following exception is generated by assertion statements?

- A. ArrayIndexOutOfBoundException
- B. RuntimeException

C. Error

AssertionError

QUESTION 57

Q 57: Which is the following class is the superclass of AssertionError?

Throwable C. Error B. Object

D. AssertionError

Q 58: Rama is a software engineer and has written a code as:

```
class TestQuestion {
public static void main(String s[]) {
String str = new String("java");
Object ob = str
System. out. println(ob. length());
```

What will be the output when the preceding code is compiled and executed?

- A. The program will display the output as:
- B. The program will generate compilation error.
- C. The program will display the output as: java
- D. The program will throw a runtime exception.

QUESTION 59

Which of the following statement(s) is/are correct?

- A. The 'extends' clause is used to specify inheritance.
- B. A final class can be an abstract class.
- If all the members of a class are private, then this class cannot be declared public.
- Ď. The "implements" clause is used to specify inheritance.

QUESTION 60

Which of the following statement(s) is/are correct?

- Every java object has a public method equals().

 B. Every java object has a public method length().
- C. A class can extend any number of classes.
- D. Every java object has a public method println().

QUESTION 61

Q 61: Parul is a student of computer science and has written a program as:

```
class Super
{}
class Sub extends Super
{}
 čĺass TestQuestion
                     boolean method1(Super obj a){ return true;} boolean method1(Sub obj b){return false;}
public static void main(String[] args) {
    Super ob1 = new Super();
Sub ob2 = new Sub();
TestQuestion obj = new TestQuestion();
System.out.println(obj.method1(ob1));
System.out.println(obj.method1(ob2));
}
 }
```

What will be the output when the preceding code is compiled and executed?

- A. The program will display the output as: false
- B. The program will generate compilation error.

true

false

- D. The program will throw a runtime exception.
- The program will display the output as: true



Which of the following statement(s) is/are correct?

- The keyword 'super' is used by subclass to invoke an overridden method in superclass.
- A. The keyword super is used by subcline 1.

 B. An instance method can override a static method in a superclass.
- C. A final method cannot be overridden.
- D. An abstract class can be instantiated.

QUESTION 63

Q 63: Parul is a student of computer science and she has written a program as:

```
class TestQuestion {
public static void main(String[] args) {
try {
if(args.length == 0)
return;
System. out. println(args[0]);
finally {
System.out.println("bye!");
```

What will be the output when the preceding code is compiled and executed?

- A. The program will compile and execute with 0 command line argument successfully, but no output will be shown.
 - The program will generate compilation error.
 - The program will compile and execute with 0 command line argument successfully, and display the output as:
 - bye!
- D. The program will throw a runtime exception.

QUESTION 64

Q 64: Rahul is a student of computer science and he has written a program as:

```
class TestQuestion
public static void main(String[] args) {
int k = 0;
try {
    _ ____
int i = 5/k;
catch(RuntimeException e) {
        System. out. pri ntln("2");
catch(Exception e) {
        System. out. pri ntl n("3");
System. out. pri ntl n("5");
}
```

What will be the output when the preceding code is compiled and executed?

A. The program will display the output as:

B/ The program will generate compilation error.

- 1 3
- C. The program will display the output as:
- D. The program will display the output as:

1	1
2	4
3	5

Q 65: Which of the statements are correct for inner class?

- Inner class can be declared inside method code.
 B. Inner class instance can exists within outer class instance.
- C. Inner class is an anonymous class can implement multiple interface.
- D. Inner class can be private, default or public.

QUESTION 66

Q 66: Kunal is a student of computer science and has written a program as:

```
class A {
void a() {
System.out.println("inside method a");
class B extends A {
void b() {
System.out.println("inside method b");
public class TestQuestion {
public static void main(String s[]) {
A obj 1 = new A();
B obj 2 = new B();
A obj = obj 2;
Obj = obj 1;
System out println(P) obj h()
System.out.println((B)obj.b());
```

What will be the output when the preceding code is compiled and executed?

- A. The program will display the output as: inside method a
- B. The program will generate compilation error.
- C. The program will display the output as: inside method b
- The program will throw a runtime exception.

QUESTION 67

Q 67: Uma is a student of computer science and has written a program as:

```
public class TestQuestion {
public static void main(String s[]) {
boolean a;
boolean p = false;
boolean q = false;
if(a = p == q) {
System.out.println("equal");
System. out. println("not-equal");
```

- The program will display the output as:
- B. The program will generate compilation error.
- C. The program will display the output as: not-equal
- D. The program will throw a runtime exception.



Q 68: In a magazine for software developers, a student found the following program:

```
interface Int1 {
public void meth();
Ínterface Int2
{} class TestQuestion implements Int1, Int2 { public void meth() { System.out.println("invoking a method");
public static void main(String s[])
```

What will be the output when the preceding code is compiled and executed?

- A. The program will display the output as: invoking a method
- The program will generate compilation error.
- D. The program will throw a runtime exception. The program will compile and execute successfully, but no output will be shown.

QUESTION 69

Q 69: In a magazine for software developers, a student found the following program:

```
import java.util.*
public class TestQuestion{
public static void main(String[] args) {
         NavigableSet <Integer> nset = new TreeSet<Integer>();
                  nset. add(10)
nset. add(15)
                  nset.add(7)
                  lterator descendingl terator = nset.descendingl terator();
if(descendingl terator.hasNext()) {
System.out.println(descendingl terator.next());
}
```

What will be the output when the preceding code is compiled and executed?

- A. The program will display the output as:
- B. The program will generate compilation error.
- The program will display the output as:
- The program will display the output as: 15



In a magazine for software developers, a student found the following program:

```
nset.add("one");
nset.add("two");
nset.add("three");
class NavigableTest extends TreeSet<Object> {
public boolean test(Object value) {
System.out.println(this.add(value));
return super.add(value);
```

- A. The program will display the output as:

 - two
 - three
- B. The program will generate compilation error.
- The program will display the output as:
- The program will compile and execute successfully, but no output will be shown.

Imagine you are a software developer in ABC. Company and write the following program for your Q 71: project:

```
System.out.println("Here Status= "+status);
```

What will happen when you compile and exceute the preceeding program?

- The program generates compile time error.

 B. The program compiles successfully and displays nothing as output.
- C. The program compiles successfully but generates runtime exception.
- D. The program compiles successfully and displays Here Status= 1 as output.

QUESTION 72

Imagine during your preparation of the SCJP exam, you came across the following program: Q 72:

```
class AssignRep {
         public static void main(String ar[]) {
    short b1=2;
                     short b2=3
                     short b3=b1+b2; // error in this statement System.out.println("Result= "+b3);
         }
}
```

What will happen when you compile and exceute the preceeding program?

- The program generates compile time error.

 B. The program compiles successfully and displays nothing as output.
- C. The program compiles successfully but generates runtime exception.
- D. The program compiles successfully and displays Result= 5 as output.