# MOCK EXAM 1

## Mock Exam – 1

- QUESTION 1
  - Q 1: Which of the following statements are correct for variable length arguments?
    - A. 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.
    - C. 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
  - Q 2: Imagine you are working as a software engineer and you have written the following program:

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

- A. 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) {
  a = 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);
  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
- 10
- C. The program will display the output as:
- D. The program will throw a runtime exception.

10 20



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:
- B. The program will generate compilation error.
- C. 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 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?

 A. The program will display the output as: Static block initialized. B. The program will generate compilation error.

Static block initial: x = 42

a = 3b = 12

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

D. The program will throw a runtime exception.

x = 42

a = 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
- C. 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
- D. 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
- B. The program will generate compilation error.
- C. The program will display the output as: 10
- 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>
```

A. The program will display the output as:

13 11

31

C. The program will display the output as:

11 12

11

21

**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();
```

12 <mark>13</mark>

21

B. The program will generate compilation error.

D. The program will display the output as:

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

- 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();
```

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

- A. The program will display the output as: in constructor
- 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 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());

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

A. The program will display the output as:
true
true

C. The program will display the output as:
false
true

false
false
false
```

#### 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?

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

- 10 32
- C. The program will display the output as: 20
- D. The program will display the output as:
  - 20 32

# 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:
- B. The program will generate compilation error.
- C. 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 TestQuestion {
  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

C. Autoboxing

D. Casting

QUESTION 16

Q 16: 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[]) {
    String input = "1 fish 2 fish red fish blue fish";
    Scanner s = new Scanner(input).useDelimiter("\\s*fish\\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());
    s.close();
}
```

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.

2 red blue

1

C. The program will display the output as:

D. The program will display the output as: fish fish 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());
    system.out.println(s.next());
}
```

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

A. The program will display the output as: maria

B. The program will generate compilation error.

dick

all

C. The program will display the output as:

D. The program will throw a runtime exception.

hi hi

nı hi

QUESTION 18

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

```
import java.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?

A. The program will display the output as:

B. The program will generate compilation error.

maria dick

C. The program will display the output as:

D. The program will throw a runtime exception.

hi hi hi

QUESTION 19

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: equal
- 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.

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.
  - D. 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?

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

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

### QUESTION 22

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

# 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);
  }
}
```

- A. The program will display the output as: 3
- B. The program will generate compilation error.
- C. The program will display the output as:
- D. The program will display the output as:
- 3
- 3 a

9

QUESTION 24

Q 24: 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.
- C. 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()
- D. TestQuestion(int x , int y)

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

- A. 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() {
System.out.println("in TestQuestion");
}
public static void main(String s[]) {
new TestQuestion();
}
```

A. The program will display the output as:

B. The program will generate compilation error.

in Block1

in Block2

in TestQuestion

 $C. \quad \text{The program will display the output as:} \\$ 

D. The program will throw a runtime exception.

in Block2 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?

A. The program will display the output as:

6

- B. The program will generate compilation error.
- C. 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:
- C. 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

### Q 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.
- C. It is used to create and define regular expression.
- D. It is a member of java.text package.

### QUESTION 32

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

```
class TestQuestion 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
- 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 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.
- C. The program will compile and execute successfully, but no output will be shown.
- D. 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
- 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 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.
- C. 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 java.util.*;
class TestQuestion {
public static void main(string s[]) {
   List<String> alist = new ArrayList<String>();
   alist.add("Z");
   alist.add(t);
   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]
- B. The program will generate compilation error.
- C. The program will display the output as: Z
- D. The program will throw a runtime exception.

True

1

### QUESTION 37

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

```
import java.util.*;
class TestQuestion {
```

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

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

### QUESTION 38

true

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.
- $B. \quad \mbox{The program will generate compilation error.}$
- 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 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.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.
- D. 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.
- D. 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:

#### 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.
- C. 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:

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

### QUESTION 45

### Q 45: Which of the following statements are correct about initialization blocks?

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

### QUESTION 46

Q 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) {
            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?

- A. The program will display the output as:

  March
- 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");
}
}
```

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

nello niraj

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

- **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 TestQuestion {
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);
  }
}
```

- 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");
```

- A. The program will display the output as: Arithmetic Exception is thrown
- B. 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**

### Which of the following events are susceptible for throwing an exception?

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

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

true false

true

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

true false

### **QUESTION 53**

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

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

- 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.

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.



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.ArrayIndexOutOfBoundsException: 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

D. AssertionError

QUESTION 57

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

A. Throwable

B. Object

C. Error

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

#### Q 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.
- C. If all the members of a class are private, then this class cannot be declared public.
- D. The "implements" clause is used to specify inheritance.

### QUESTION 60

### Q 60: Which of the following statement(s) is/are correct?

- A. Every java object has a public method equals().
- B. Every java object has a public method length().
- $C. \quad A \ class \ can \ extend \ any \ number \ of \ classes.$
- 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:

### 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

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

true false



- Q 62: Which of the following statement(s) is/are correct?
  - A. The keyword 'super' is used by subclass to invoke an overridden method in superclass.
  - 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.
- B. The program will generate compilation error.
- C. 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(ArithmeticException e) {
        System.out.println("1");
}
catch(RuntimeException e) {
        System.out.println("2");
}
catch(Exception e) {
        System.out.println("3");
}
Finally {
        System.out.println("4");
}
System.out.println("5");
}
System.out.println("5");
}
```

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

- 1
- 4
- C. The program will display the output as:
- D. The program will display the output as:

```
1
2
3
```

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

- A. 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.

1

4

5

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 obj1 = new A();
    B obj2 = new B();
    A obj = obj2;
    obj = obj1;
    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
- C. The program will display the output as: inside method b
- $\ensuremath{\mathrm{B}}.$  The program will generate compilation error.
- D. 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");
  }
  else
  System.out.println("not-equal");
}
```

- A. The program will display the output as: equal
- 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();
}
interface 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
- 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 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);
    Iterator descendingIterator = nset.descendingIterator();
    if(descendingIterator.hasNext()) {
        System.out.println(descendingIterator.next());
     }
    }
}
```

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

- A. The program will display the output as: 10
- B. The program will generate compilation error.
- C. The program will display the output as: 7
- D. The program will display the output as:

  15

QUESTION 70

Q 70: In a magazine for software developers, a student found the following program:

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

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

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

- A. 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

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

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

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

- A. 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.