# 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:

```
import java.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);
}
```

#### 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);
}
```

- 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

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 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?

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

B. The program will generate compilation error.

x = 42 a = 3 b = 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
- C. 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: D. 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
- 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 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
- 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());
}
```

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

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

f<mark>alse</mark> true 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?

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

- 10
- 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: false
- 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:

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

C. The program will display the output as:

D. The program will display the output as:

fish fish fish

fish

fish fish

2

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.
```

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:

D. The program will throw a runtime exception.

hi

hi

hi

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());
    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

all

**QUESTION 18** 

C. The program will display the output as:

D. The program will throw a runtime exception.

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 j ava. util. *;
cl ass TestQuestion {
public static void main(String args[]) {
    Bool ean b1 = new Bool ean(true);
    Bool ean b2 = false;
    if(b1. equal s(b2))
System. out. println("equal");
el se
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:

#### 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

1

#### 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?

A. The program will display the output as: 3

B. The program will generate compilation error.

C. The program will display the output as: 3

D. The program will display the output as:

3 a

9



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.



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:

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 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

in TestQuestion

- C. The program will display the output as: in Block2 in Block1
- D. The program will throw a runtime exception.

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

B. The program will generate compilation error.

## **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.
- 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 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
- 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 j ava.util.*;
class TestQuestion {
public static void main(String s[]) {
  List<String> alist = new ArrayList<String>();
  alist.add("Z");
  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]
- 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
QUESTION 37

1

#### 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(1);
alist.add(true);
Collections.sort(alist);
System.out.println(alist);
}
}
```

- 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 1

true

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 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(now. toString());
  }
}
```

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

- 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 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.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 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:

```
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 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 java.text.DateFormat;
import java.util.Date;
public class TestGuestion{
    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.
- 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.

hello 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);
  }
}
```

#### 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");
}
}
```

- 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

#### Q 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

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

```
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.

## 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
- B. 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?

- $A. \ \ \, \text{The program will display the output as:}$
- 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. 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
{}
class TestQuestion
{
          boolean method1(Super obja){ return true;}
          boolean method1(Sub objb){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

- 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");
  }
}
```

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

- 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?

- 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.
- 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((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
- 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.

## 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);
    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:
- B. The program will generate compilation error.
- C. The program will display the output as:
- 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:
  - 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:

#### 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.