**ME-Q1)**Given the following definition of the classes Animal, Lion, and Jumpable, select the correct combinations of assignments of a variable that don’t result in compilation errors or runtime exceptions (select 2 options).

        interface Jumpable {}

        class Animal {}

        class Lion extends Animal implements Jumpable {}

**a**Jumpable var1 = new Jumpable();

**b**Animal var2 = new Animal();  
**c**Lion var3 = new Animal();  
**d**Jumpable var4 = new Animal();

**e**Jumpable var5 = new Lion();  
**f**Jumpablevar6=(Jumpable)(newAnimal());

**ME-Q2)**Given the following code, which option, if used to replace /\* INSERT CODE HERE \*/, will make the code print 1? (Select 1 option.)

try {

    String[][] names = {{"Andre", "Mike"}, null, {"Pedro"}};

    System.out.println (names[2][1].substring(0, 2));

} catch (/\*INSERT CODE HERE\*/) {

    System.out.println(1);

}

**a**IndexPositionException e  
**b**NullPointerException e  
**c**ArrayIndexOutOfBoundsException e

**d**ArrayOutOfBoundsException e

**ME-Q3)**What is the output of the following code? (Select 1 option.)

public static void main(String[] args) {

    int a = 10; String name = null;

    try {

        a = name.length();

        a++;

    } catch (NullPointerException e){

++a;

        return;

    } catch (RuntimeException e){

a--;

        return;

    } finally {

        System.out.println(a);

    }

}

**a**5

**b**6

**c**10

**d**11

**e**12

**f**Compilation error

**g**No output

**h**Runtime exception

**ME-Q4)**Given the following class definition,

class Student { int marks = 10; }

what is the output of the following code? (Select 1 option.)

class Result {

    public static void main(String... args) {

        Student s = new Student();

        switch (s.marks) {

            default: System.out.println("100");

            case 10: System.out.println("10");

            case 98: System.out.println("98");

}

}

}

**a 100**

**10**

**98**

**b 10**

**98**

**c 100**

**d 10**

**ME-Q5)**Given the following code, which code can be used to create and initialize an object of the class ColorPencil? (Select 2 options.)

class Pencil {}

class ColorPencil extends Pencil {

    String color;

    ColorPencil(String color) {this.color = color;}

}

**a**ColorPencil var1 = new ColorPencil();  
**b**ColorPencil var2 = new ColorPencil(RED);  
**c**ColorPencil var3 = new ColorPencil("RED");

**d**Pencil var4 = new ColorPencil("BLUE");

**ME-Q6)**What is the output of the following code? (Select 1 option.)

class Doctor {

    protected int age;

    protected void setAge(int val) { age = val; }

    protected int getAge() { return age; }

}

class Surgeon extends Doctor {

    Surgeon(String val) {

        specialization = val;

}

    String specialization;

    String getSpecialization() { return specialization; }

}

class Hospital {

    public static void main(String args[]) {

Surgeon s1 = new Surgeon("Liver");

Surgeon s2 = new Surgeon("Heart");

s1.age = 45;

System.out.println(s1.age + s2.getSpecialization());

System.out.println(s2.age + s1.getSpecialization());

}

}

**a**45Heart

0Liver

**b**45Liver

0Heart

**c**45Liver

45Heart

**d**45Heart

45Heart

**e**Class fails to compile.

**ME-Q7)**What is the output of the following code? (Select 1 option.)

class RocketScience {

    public static void main(String args[]) {

int a = 0;

while (a == a++) {

a++;

    System.out.println(a);

}

}

}

* **a**The while loop won’t execute; nothing will be printed.
* **b**The while loop will execute indefinitely, printing all numbers, starting from 1.
* **c**The while loop will execute indefinitely, printing all even numbers, starting   
  from 0.
* **d**The while loop will execute indefinitely, printing all even numbers, starting   
  from 2.
* **e**The while loop will execute indefinitely, printing all odd numbers, starting   
  from 1.
* **f**The while loop will execute indefinitely, printing all odd numbers, starting  from 3.

**ME-Q8)**Given the following statements,

com.ejava is a package

class Person is defined in package com.ejava

class Course is defined in package com.ejava 

which of the following options correctly import the classes Person and Course in the class MyEJava? (Select 3 options.)

* + **a**import com.ejava.\*; class MyEJava {}
  + **b**import com.ejava; class MyEJava {}
  + **c**import com.ejava.Person; import com.ejava.Course; class MyEJava {}
  + **d**import com.ejava.Person; import com.ejava.\*; class MyEJava {}

**ME-Q9)**Given that the following classes Animal and Forest are defined in the same package, examine the code and select the correct statements (select 2 options).

class Animal {

    public void printKing() {

    System.out.println("Lion");

}

}

class Forest {

    public static void main(String... args) {

   Animal anAnimal = new Animal();

   anAnimal.printKing();

}}

**a**The class Forest prints Lion.

**b**If the code on line 2 is changed as follows, the class Forest will print Lion:   
  private void printKing() {

**c**If the code on line 2 is changed as follows, the class Forest will print Lion: void printKing() {

**d**If the code on line 2 is changed as follows, the class Forest will print Lion: default void printKing() { 

**ME-Q10)**Given the following code,

class MainMethod {

    public static void main(String... args) {

        System.out.println(args[0]+":"+ args[2]);

    }

}

what is its output if it’s executed using the following command? (Select 1 option.)

java MainMethod 1+2 2\*3 4-3 5+1

**a**java:1+2  
**b**java:3  
**c**MainMethod:2\*3 **d**MainMethod:6  
**e**1+2:2\*3  
**f**3:3  
**g**6  
**h**1+2:4-3  
**i**31  
**j**4

**ME-Q11)**What is the output of the following code? (Select 1 option.)

interface Moveable {

    int move(int distance);

}

class Person {

    static int MIN\_DISTANCE = 5;

    int age;

    float height;

    boolean result;

    String name;

}

public class EJava {

    public static void main(String arguments[]) {

} }

Person person = new Person();

Moveable moveable = (x) -> Person.MIN\_DISTANCE + x;

System.out.println(person.name + person.height + person.result

**a**null0.0false025

**b**null0false025  
**c**null0.0ffalse025

**d**0.0false025

+ person.age + moveable.move(20));

**e**0false025

**f**0.0ffalse025

**g**null0.0true025

**h**0true025

**i**0.0ftrue025

**j**Compilation error

**k**Runtime exception

**ME-Q12)**Given the following code, which option, if used to replace /\* INSERT CODE HERE \*/, will make the code print the value of the variable pagesPerMin? (Select 1 option.)

class Printer {

    int inkLevel;

}

class LaserPrinter extends Printer {

    int pagesPerMin;

    public static void main(String args[]) {

        Printer myPrinter = new LaserPrinter();

        System.out.println(/\* INSERT CODE HERE \*/);

    }

}

**a**(LaserPrinter)myPrinter.pagesPerMin  
**b**myPrinter.pagesPerMin  
**c**LaserPrinter.myPrinter.pagesPerMin  
**d**((LaserPrinter)myPrinter).pagesPerMin

**ME-Q13)**What is the output of the following code? (Select 1 option.)

interface Keys {

    String keypad(String region, int keys);

}

public class Handset {

    public static void main(String... args) {

        double price;

        String model;

        Keys varKeys = (region, keys) ->

                       {if (keys >= 32)

                        return region; else return "default";};

        System.out.println(model + price + varKeys.keypad("AB", 32));

    }

}

**a**null0AB  
**b**null0.0AB  
**c**null0default  
**d**null0.0default

**e**0  
**f**0.0  
**g**Compilation error

**ME-Q14)**What is the output of the following code? (Select 1 option.)

public class Sales {

    public static void main(String args[]) {

 int salesPhone = 1;

System.out.println(salesPhone++ + ++salesPhone +

                                               ++salesPhone);

} }

**a**5

**b**6

**c**8

**d**9

**ME-Q15)**Which of the following options defines the correct structure of a Java class that compiles successfully? (Select 1 option.)

**a**package com.ejava.guru; package com.ejava.oracle; class MyClass {   
            int age = /\* 25 \*/ 74;  }

**b**import com.ejava.guru.\*; import com.ejava.oracle.\*; package com.ejava;  
class MyClass {   
            String name = "e" + "Ja /\*va\*/ v";

}

**c**class MyClass {  
import com.ejava.guru.\*;   
}

**d**class MyClass { int abc;   
            String course = //this is a comment

"eJava";}

**e**None of the above

**ME-Q16)**What is the output of the following code? (Select 1 option.)

class OpPre {

    public static void main(String... args) {

int x = 10;

int y = 20;

int z = 30;

if (x+y%z > (x+(-y)\*(-z))) {

    System.out.println(x + y + z);

}

} }

**a**60

**b**59

**c**61

**d**No output.

**e**The code fails to compile.

**ME-Q17)**Select the most appropriate definition of the variable name and the line num- ber on which it should be declared so that the following code compiles successfully (choose 1 option).

class EJava {

    // LINE 1

    public EJava() {

        System.out.println(name);

    }

    void calc() {

        // LINE 2

        if (8 > 2) {

            System.out.println(name);

        }

    }

    public static void main(String... args) {

// LINE 3

        System.out.println(name);

    }

}

* **a**Define static String name; on line 1.
* **b**Define String name; on line 1.
* **c**Define String name; on line 2.
* **d**Define String name; on line 3.

**ME-Q18)**Examine the following code and select the correct statement (choose 1 option).

line1> class Emp {

line2> Emp mgr = new Emp();

line3>    }

line4> class Office {

line5>     public static void main(String args[]) {

line6> Emp e = null;

line7> e = new Emp();

line8> e = null;

line9> }

line10> }

A The object referred to by object e is eligible for garbage collection on line 8.

B The object referred to by object e is eligible for garbage collection on line 9.

C The object referred to by object e isn’t eligible for garbage collection because its member variable mgr isn’t set to null.

D The code throws a runtime exception and the code execution never reaches line 8 or line 9.

**ME-Q19)**Given the following, long result;

which options are correct declarations of methods that accept two String arguments and an int argument and whose return value can be assigned to the variable result? (Select 3 options.)

**a**Short myMethod1(String str1, int str2, String str3)

**b**Int myMethod2(String val1, int val2, String val3)  
**c**BytemyMethod3(Stringstr1,str2,inta)  
**d**Float myMethod4(String val1, val2, int val3)

**e**Long myMethod5(int str2, String str3, String str1) **f**LongmyMethod6(String...val1,intval2)  
**g**Short myMethod7(int val1, String... val2)

**ME-Q20)**Which of the following will compile successfully? (Select 3 options.)

**a**int eArr1[] = {10, 23, 10, 2};  
**b**int[] eArr2 = new int[10];  
**c**int[] eArr3 = new int[] {};  
**d**int[] eArr4 = new int[10] {};  
**e**int eArr5[] = new int[2] {10, 20};

**ME-Q21)**Assume that Oracle has asked you to create a method that returns the con- catenated value of two String objects. Which of the following methods can accom- plish this job? (Select 2 options.)

**a**public String add(String 1, String 2) { return str1 + str2;   
}

**b**private String add(String s1, String s2) { return s1.concat(s2);   
}

**c**protected String add(String value1, String value2) { return value2.append(value2);   }

**d**String subtract(String first, String second) { return first.concat(second.substring(0));

}

**ME-Q22)**Given the following,

int ctr = 10;

char[] arrC1 = new char[]{'P','a','u','l'};

char[] arrC2 = {'H','a','r','r','y'};

//INSERT CODE HERE

System.out.println(ctr);

which options, when inserted at //INSERT CODE HERE, will output 14? (Choose 2 options.)

a) for (char c1 : arrC1) {

for (char c2 : arrC2) {

if (c2 == 'a') break;

++ctr;

}

}

b) for (char c1 : arrC1)

for (char c2 : arrC2) {

if (c2 == 'a') break;

++ctr;

}

c) for (char c1 : arrC1)

for (char c2 : arrC2)

if (c2 == 'a') break;

++ctr;

d) for (char c1 : arrC1) {

for (char c2 : arrC2) {

if (c2 == 'a') continue;

++ctr;

}

}

**ME-Q23)**Given the following definitions of the class ChemistryBook, select the state- ments that are correct individually (choose 2 options).

import java.util.ArrayList;

class ChemistryBook {

    public void read() {}                //METHOD1

    public String read() { return null; }     //METHOD2

    ArrayList read(int a) { return null; }     //METHOD3

**a**Methods marked with //METHOD1 and //METHOD2 are correctly overloaded methods.

**b**Methods marked with //METHOD2 and //METHOD3 are correctly overloaded methods.   
**c** Methods marked with //METHOD1 and //METHOD3 are correctly overloaded methods.  
**d** All the methods—methods marked with //METHOD1, //METHOD2, and //METHOD3— are correctly overloaded methods.

**ME-Q24)**Given the following,

final class Home {

    String name;

int rooms;

    //INSERT CONSTRUCTOR HERE

}

which options, when inserted at //INSERT CONSTRUCTOR HERE, will define valid over- loaded constructors for the class Home? (Choose 3 options.)

**a**Home() {}  
**b**Float Home() {}  
**c**protected Home(int rooms) {}  
**d**final Home() {}  
**e**private Home(long name) {}  
**f**floatHome(introoms,Stringname){}

**g**static Home() {}

**ME-Q25)**Given the following code, which option, if used to replace // INSERT CODE HERE, will make the code print numbers that are completely divisible by 14? (Select 1 option.)

for (int ctr = 2; ctr <= 30; ++ctr) {

    if (ctr % 7 != 0)

        //INSERT CODE HERE

    if (ctr % 14 == 0)

  System.out.println(ctr);

}

**a**continue;

**b**exit;  
**c**break;  
**d**end;

**ME-Q26)**What is the output of the following code? (Select 1 option.)

import java.util.function.Predicate;

public class MyCalendar {

    public static void main(String arguments[]) {

        Season season1 = new Season();

        season1.name = "Spring";

Season season2 = new Season();

season2.name = "Autumn";

Predicate<String> aSeason = (s) -> s == "Summer" ?

                        season1.name : season2.name;

season1 = season2;

System.out.println(season1.name);

System.out.println(season2.name);

System.out.println(aSeason.test(new String("Summer")));

}}

class Season {

    String name;

}

* **a**String Autumn   
  false
* **b**Spring String   
  false
* **c**Autumn Autumn   
  false
* **d**Autumn String   
  true
* **e**Compilation error
* **f**Runtime exception

**ME-Q27)**What is true about the following code? (Select 1 option.)

class Shoe {}

class Boot extends Shoe {}

class ShoeFactory {

    ShoeFactory(Boot val) {

        System.out.println("boot");

    }

    ShoeFactory(Shoe val) {

        System.out.println("shoe");

    }

}

* **a**The class ShoeFactory has a total of two overloaded constructors.
* **b**The class ShoeFactory has three overloaded constructors, two user-defined   
  constructors, and one default constructor.
* **c**The class ShoeFactory will fail to compile.
* **d**The addition of the following constructor will increment the number of con-   
  structors of the class ShoeFactory to 3: private ShoeFactory (Shoe arg) {}

**ME-Q28)**Given the following definitions of the classes ColorPencil and TestColor, which option, if used to replace //INSERT CODE HERE, will initialize the instance vari- able color of the reference variable myPencil with the String literal value "RED"? (Select 1 option.)

class ColorPencil {

    String color;

    ColorPencil(String color) {

        //INSERT CODE HERE

} }

class TestColor {

    ColorPencil myPencil = new ColorPencil("RED");

}

**a**this.color = color;

**b**color = color;  
**c**color = RED;  
**d**this.color = RED;

**ME-Q29)**What is the output of the following code? (Select 1 option.)

class EJavaCourse {

    String courseName = "Java";

}

class University {

    public static void main(String args[]) {

        EJavaCourse courses[] = { new EJavaCourse(), new EJavaCourse() };

        courses[0].courseName = "OCA";

        for (EJavaCourse c : courses) c = new EJavaCourse();

        for (EJavaCourse c : courses) System.out.println(c.courseName);

} }

* **a**Java Java
* **b**OCA Java
* **c**OCA OCA
* **d**None of the above

**ME-Q30)**What is the output of the following code? (Select 1 option.)

class Phone {

    static void call() {

        System.out.println("Call-Phone");

    }

}

class SmartPhone extends Phone{

    static void call() {

        System.out.println("Call-SmartPhone");

    }

}

class TestPhones {

    public static void main(String... args) {

        Phone phone = new Phone();

        Phone smartPhone = new SmartPhone();

        phone.call();

        smartPhone.call();

    }

}

**a**Call-Phone Call-Phone

**b**Call-Phone Call-SmartPhone

**c**Call-Phone null

**d**null Call-SmartPhone

**ME-Q31)**Given the following code, which of the following statements are true? (Select 3 options.)

class MyExam {

    void question() {

        try {

            question();

        } catch (StackOverflowError e) {

            System.out.println("caught");

} }

    public static void main(String args[]) {

        new MyExam().question();

} }

**a**The code will print caught.

**b**The code won’t print caught.

**c**The code would print caught if StackOverflowError were a runtime exception.

**d**The code would print caught if StackOverflowError were a checked exception.

**e**The code would print caught if question() throws the exception NullPointer- Exception.

**ME-Q32)**A class Student is defined as follows:

public class Student {

    private String fName;

    private String lName;

    public Student(String first, String last) {

        fName = first; lName = last;

}

    public String getName() { return fName + lName; }

}

The creator of the class later changes the method getName as follows:

    public String getName() {

        return fName + " " + lName;

}

What are the implications of this change? (Select 2 options.)

* **a**The classes that were using the class Student will fail to compile.
* **b**The classes that were using the class Student will work without any compila-   
  tion issues.
* **c**The class Student is an example of a well-encapsulated class.
* **d**The class Student exposes its instance variable outside the class.

**ME-Q33)**What is the output of the following code? (Select 1 option.)

class ColorPack {

    int shadeCount = 12;

    static int getShadeCount() {

        return shadeCount;

    }

}

class Artist {

    public static void main(String args[]) {

        ColorPack pack1 = new ColorPack();

        System.out.println(pack1.getShadeCount());

} }

* **a**10
* **b**12
* **c**No output
* **d**Compilation error

**ME-Q34)**Paul defined his Laptop and Workshop classes to upgrade his laptop’s mem- ory. Do you think he succeeded? What is the output of this code? (Select 1 option.)

class Laptop {

    String memory = "1 GB";

}

class Workshop {

    public static void main(String args[]) {

        Laptop life = new Laptop();

        repair(life);

}

System.out.println(life.memory);

}

public static void repair(Laptop laptop) {

    laptop.memory = "2 GB";

}

* **a**1GB
* **b**2GB
* **c**Compilation error
* **d**Runtime exception

**ME-Q35)**What is the output of the following code? (Select 1 option.)

public class Application {

    public static void main(String... args) {

double price = 10;

String model;

if (price > 10)

    model = "Smartphone";

else if (price <= 10)

    model = "landline";

System.out.println(model);

} }

* **a**landline
* **b**Smartphone
* **c**No output
* **d**Compilation error

**ME-Q36)**What is the output of the following code? (Select 1 option.)

class EString {

    public static void main(String args[]) {

        String eVal = "123456789";

System.out.println(eVal.substring(eVal.indexOf("2"), ➥ eVal.indexOf("0")).concat("0"));

} }

* **a**234567890
* **b**34567890
* **c**234456789
* **d**3456789
* **e**Compilation error
* **f**Runtime exception

**ME-Q37)**Examine the following code and select the correct statements (choose

2 options).

class Artist {

    Artist assistant;

}

class Studio {

    public static void main(String... args) {

        Artist a1 = new Artist();

        Artist a2 = new Artist();

        a2.assistant = a1;

        a2 = null;        // Line 1

    }

}

// Line 2

* **a**At least two objects are garbage collected on line 1.
* **b**At least one object is garbage collected on line 1.
* **c**No objects are garbage collected on line 1.
* **d**The number of objects that are garbage collected on line 1 is unknown.
* **e**At least two objects are eligible for garbage collection on line 2.

**ME-Q38)**What is the output of the following code? (Select 1 option.)

class Book {

    String ISBN;

    Book(String val) {

        ISBN = val;

} }

class TestEquals {

    public static void main(String... args) {

} }

Book b1 = new Book("1234-4657");

Book b2 = new Book("1234-4657");

System.out.print(b1.equals(b2) +":");

System.out.print(b1 == b2);

* **a**true:false
* **b**true:true
* **c**false:true
* **d**false:false
* **e**Compilation error—there is no equals method in the class Book.
* **f**Runtime exception.

**ME-Q39)**Which of the following statements are correct? (Select 2 options.)

* **a**StringBuilder sb1 = new StringBuilder() will create a StringBuilder object with no characters but with an initial capacity to store 16 characters.
* **b**StringBuildersb1=newStringBuilder(5\*10)willcreateaStringBuilder   
  object with a value of 50.
* **c**Unlike the class String, the concat method in StringBuilder modifies the   
  value of a StringBuilder object.
* **d**The insert method can be used to insert a character, number, or String at   
  the start or end or a specified position of a StringBuilder.

**ME-Q40)**Given the following definition of the class Animal and the interface Jump,

select the correct array declarations and initialization (choose 3 options).

interface Jump {}

class Animal implements Jump {}

**a**Jump eJump1[] = {null, new Animal()};

**b**Jump[] eJump2 = new Animal()[22];  
**c**Jump[] eJump3 = new Jump[10];  
**d**Jump[] eJump4 = new Animal[87];

**e**Jump[] eJump5 = new Jump()[12];

**ME-Q41)**What is the output of the following code? (Select 1 option.)

import java.util.\*;

class EJGArrayL {

    public static void main(String args[]) {

        ArrayList<String> seasons = new ArrayList<>();

        seasons.add(1, "Spring"); seasons.add(2, "Summer");

        seasons.add(3, "Autumn"); seasons.add(4, "Winter");

        seasons.remove(2);

for (String s : seasons)

    System.out.print(s + ", ");

} }

* **a**Spring,Summer,Winter,
* **b**Spring,Autumn,Winter,
* **c**Autumn,Winter,
* **d**Compilation error
* **e**Runtime exception

**ME-Q42)**What is the output of the following code? (Select 1 option.)

class EIf {

    public static void main(String args[]) {

}

  bool boolean = false;

  do {

      if (boolean = true)

          System.out.println("true");

      else

          System.out.println("false");

  }

  while(3.3 + 4.7 > 8);    }

}

* **a**The class will print true.
* **b**The class will print false.
* **c**The class will print true if the if condition is changed to boolean == true.
* **d**The class will print false if the if condition is changed to boolean != true.
* **e**The class won’t compile.
* **f**Runtime exception.

**ME-Q43)**How many Fish did the Whale (defined as follows) manage to eat? Examine the following code and select the correct statements (choose 2 options).

class Whale {

    public static void main(String args[]) {

        boolean hungry = false;

        while (hungry=true) {

            ++Fish.count;

        }

        System.out.println(Fish.count);

    }

}  
class Fish {

    static byte count;

}

* **a**The code doesn’t compile.
* **b**The code doesn’t print a value.
* **c**The code prints 0.
* **d**Changing ++Fish.count to Fish.count++ will give the same results.

**ME-Q44)**Given the following code, which option, if used to replace /\* REPLACE CODE HERE \*/, will make the code print the name of the phone with the position at which it’s stored in the array phones? (Select 1 option.)

class Phones {

    public static void main(String args[]) {

        String phones[]= {"BlackBerry", "Android", "iPhone"};

for (String phone : phones)

    /\* REPLACE CODE HERE \*/

} }

* **a**System.out.println(phones.count + ":" + phone);
* **b**System.out.println(phones.counter + ":" + phone);
* **c**System.out.println(phones.getPosition() + ":" + phone);
* **d**System.out.println(phones.getCtr() + ":" + phone);
* **e**System.out.println(phones.getCount() + ":" + phone);
* **f**System.out.println(phones.pos+":"+phone);
* **g**None of the above

**ME-Q45)**Given the following code,

Byte b1 = (byte)100;

Integer i1 = (int)200;

Long l1 = (long)300;

Float f1 = (float)b1 + (

     0int)l1;

String s1 = 300;

if (s1 == (b1 + i1))

    s1 = (String)500;

else

    f1 = (int)100;

System.out.println(s1 + ":" + f1);

what is the output? Select 1 option.

* **a**Code fails compilation at line numbers 1, 3, 4, 7.
* **b**Code fails compilation at line numbers 6, 7.
* **c**Code fails compilation at line numbers 7, 9.
* **d**Code fails compilation at line numbers 4, 5, 6, 7, 9.
* **e**No compilation error—outputs 500:300.
* **f**No compilation error—outputs 300:100.
* **g**Runtime exception.

**ME-Q46)**What is the output of the following code? (Select 1 option.)

class Book {

    String ISBN;

    Book(String val) {

        ISBN = val;

    }

    public boolean equals(Object b) {

        if (b instanceof Book) {

            return ((Book)b).ISBN.equals(ISBN);

}

else

    return false;

}

}

class TestEquals {

    public static void main(String args[]) {

Book b1 = new Book("1234-4657");

Book b2 = new Book("1234-4657");

LocalDate release = null;

release = b1.equals(b2) ? b1 == b2? LocalDate.of(2050,12,12):

LocalDate.parse("2072-02-01"):LocalDate.parse("9999-09-09");

System.out.print(release);

* **a**2050-12-12
* **b**2072-02-01
* **c**9999-09-09
* **d**Compilation error
* **e**Runtime exception

**ME-Q47)**What is the output of the following code? (Select 1 option.)

int a = 10;

for (; a <= 20; ++a) {

    if (a%3 == 0) a++; else if (a%2 == 0) a=a\*2;

    System.out.println(a);

}

* **a**11 13 15 17 19
* **b**20
* **c**11 14 17 20
* **d**40
* **e**Compilation error

**ME-Q48)**Given the following code, which option, if used to replace // INSERT CODE HERE, will define an overloaded rideWave method? (Select 1 option.)

class Raft {

    public String rideWave() { return null; }

    //INSERT CODE HERE

}

**a**public String[] rideWave() { return null; }  
**b**protected void riceWave(int a) {}  
**c**private void rideWave(int value, String value2) {}  
**d**default StringBuilder rideWave (StringBuffer a) { return null; }

**ME-Q49)**Given the following code, which option, if used to replace // INSERT CODE HERE, will correctly calculate the sum of all the even numbers in the array num and store it in the variable sum? (Select 1 option.)

int num[] = {10, 15, 2, 17};

int sum = 0;

for (int number : num) {

    //INSERT CODE HERE

    sum += number;

}

**a**if(number%2==0) continue;

**b**if(number%2==0) break;

**c**if(number%2!=0) continue;

**d**if(number%2!=0) break;

**ME-Q50)**What is the output of the following code? (Select 1 option.)

class Op {

    public static void main(String... args) {

} }

int a = 0;

int b = 100;

Predicate<Integer> compare = (var) -> var++ == 10;

if (!b++ > 100 && compare.test(a)) {

    System.out.println(a+b);

}

* **a**100
* **b**101
* **c**102
* **d**Code fails to compile.
* **e**No output is produced.

**ME-Q51)**Choose the option that meets the following specification: Create a well- encapsulated class Pencil with one instance variable model. The value of model should be accessible and modifiable outside Pencil. (Select 1 option.)

* **a**class Pencil {  
  public String model;   
  }
* **b**class Pencil {  
  public String model;   
              public String getModel() { return model; }
* public void setModel(String val) { model = val; }
* }
* **c**class Pencil {  
  private String model;   
              public String getModel() { return model; }
* public void setModel(String val) { model = val; }
* }
* **d**class Pencil {  
  public String model;   
              private String getModel() { return model; }
* private void setModel(String val) { model = val; }
* }

**ME-Q52)**What is the output of the following code? (Select 1 option.)

class Phone {

    void call() {

        System.out.println("Call-Phone");

    }

}

class SmartPhone extends Phone{

    void call() {

        System.out.println("Call-SmartPhone");

} }

class TestPhones {

    public static void main(String[] args) {

} }

Phone phone = new Phone();

Phone smartPhone = new SmartPhone();

phone.call();

smartPhone.call();

* **a**Call-Phone Call-Phone
* **b**Call-Phone Call-SmartPhone
* **c**Call-Phone null
* **d**null Call-SmartPhone

**ME-Q53)**What is the output of the following code? (Select 1 option.)

class Phone {

    String keyboard = "in-built";

}

class Tablet extends Phone {

    boolean playMovie = false;

}

class College2 {

    public static void main(String args[]) {

        Phone phone = new Tablet();

        System.out.println(phone.keyboard + ":" + phone.playMovie);

    }

}

* **a**in-built:false
* **b**in-built:true
* **c**null:false
* **d**null:true
* **e**Compilation error

**ME-Q54)**What is the output of the following code? (Select 1 option.)

public class Wall {

    public static void main(String args[]) {

double area = 10.98;

String color;

if (area < 5)

    color = "red";

else

    color = "blue";

System.out.println(color);

} }

* **a**red
* **b**blue
* **c**No output
* **d**Compilation error

**ME-Q55)**What is the output of the following code? (Select 1 option.)

class Diary {

    int pageCount = 100;

    int getPageCount() {

        return pageCount;

    }

    void setPageCount(int val) {

        pageCount = val;

} }

class ClassRoom {

    public static void main(String args[]) {

        System.out.println(new Diary().getPageCount());

        new Diary().setPageCount(200);

        System.out.println(new Diary().getPageCount());

} }

* **a**100 200
* **b**100 100
* **c**200 200
* **d**Code fails to compile.

**ME-Q56)**How many times do you think you can shop with the following code (that is,

what’s the output of the following code)? (Select 1 option.)

class Shopping {

    public static void main(String args[]) {

boolean bankrupt = true;

do System.out.println("enjoying shopping"); bankrupt = false;

while (!bankrupt);

} }

* **a**The code prints enjoying shopping once.
* **b**The code prints enjoying shopping twice.
* **c**The code prints enjoying shopping in an infinite loop.
* **d**The code fails to compile.

**ME-Q57)**Which of the following options are valid for defining multidimensional arrays? (Choose 4 options.)

* **a**String ejg1[][] = new String[1][2];
* **b**String ejg2[][] = new String[][] { {}, {} };
* **c**String ejg3[][] = new String[2][2];
* **d**String ejg4[][] = new String[][]{{null},new String[]{"a","b","c"},   
  {new String()}};
* **e**String ejg5[][] = new String[][2];
* **f**Stringejg6[][]=newString[][]{"A","B"};
* **g**String ejg7[][] = new String[]{{"A"}, {"B"}};

**ME-Q58)**What is the output of the following code? (Select 1 option.)

class Laptop {

    String memory = "1GB";

}

class Workshop {

    public static void main(String args[]) {

        Laptop life = new Laptop();

        repair(life);

        System.out.println(life.memory);

    }

    public static void repair(Laptop laptop) {

        laptop = new Laptop();

        laptop.memory = "2GB";

    }

}

* **a**1GB
* **b**2GB
* **c**Compilation error
* **d**Runtime exception

**ME-Q59)**Given the following code, which option, if used to replace //INSERT CODE HERE, will enable a reference variable of type Roamable to refer to an object of the Phone class? (Select 1 option.)

interface Roamable{}

class Phone {}

class Tablet extends Phone implements Roamable {

    //INSERT CODE HERE

}

* **a**Roamable var = new Phone();
* **b**Roamable var = (Roamable)Phone();
* **c**Roamable var = (Roamable)new Phone();
* **d**Because the interface Roamable and the class Phone are unrelated, a refer-   
  ence variable of type Roamable can’t refer to an object of the class Phone.

**ME-Q60)**What is the output of the following code? (Select 1 option.)

class Paper {

    Paper() {

this(10);

        System.out.println("Paper:0");

    }

    Paper(int a) { System.out.println("Paper:1"); }

}

class PostIt extends Paper {}

class TestPostIt {

    public static void main(String[] args) {

        Paper paper = new PostIt();

    }

}

* **a**Paper:1
* **b**Paper:0
* **c**Paper:0 Paper:1
* **d**Paper:1 Paper:0

**ME-Q61)**Examine the following code and select the correct statement (choose 1 option).

class StringBuilders {

public static void main(String... args) {

    StringBuilder sb1 = new StringBuilder("eLion");

    String ejg = null;

    ejg = sb1.append("X").substring(sb1.indexOf("L"),

     sb1.indexOf("X"));

 System.out.println(ejg);

}

}

* **a**The code will print LionX.
* **b**The code will print Lion.
* **c**The code will print Lion if line 5 is changed to the following:   
          ejg = sb1.append("X").substring(sb1.indexOf('L'), sb1.indexOf('X'));
* **d**The code will compile only when line 4 is changed to the following: StringBuilder ejg = null;

**ME-Q62)**Given the following code,

interface Jumpable {

    int height = 1;

    default void worldRecord() {

        System.out.print(height);

} }

interface Moveable {

    int height = 2;

    static void worldRecord() {

        System.out.print(height);

} }

class Chair implements Jumpable, Moveable {

    int height = 3;

    Chair() {

        worldRecord();

    }

    public static void main(String args[]) {

        Jumpable j = new Chair();

        Moveable m = new Chair();

        Chair c = new Chair();

} }

what is the output? Select 1 option.

* **a**111
* **b**123
* **c**333
* **d**222
* **e**Compilation error
* **f**Runtime exception

**ME-Q63)**Given the following code, which option, if used to replace /\* INSERT CODE HERE \*/, will enable the class Jungle to determine whether the reference variable animal refers to an object of the class Lion and print 1? (Select 1 option.)

class Animal{ float age; }

class Lion extends Animal { int claws;}

class Jungle {

    public static void main(String args[]) {

        Animal animal = new Lion();

        /\* INSERT CODE HERE \*/

System.out.println(1);

} }

**a**if (animal instanceof Lion)

**b**if (animal instanceOf Lion)

**c**if (animal == Lion)  
**d**if (animal = Lion)

**ME-Q64)**Given that the file Test.java, which defines the following code, fails to com- pile, select the reasons for the compilation failure (choose 2 options).

class Person {

    Person(String value) {}

}

class Employee extends Person {}

class Test {

    public static void main(String args[]) {

        Employee e = new Employee();

    }

}

* **a**The class Person fails to compile.
* **b**The class Employee fails to compile.
* **c**The default constructor can call only a no-argument constructor of a base   
  class.
* **d**The code that creates the object of the class Employee in the class Test did

not pass a String value to the constructor of the class Employee.

**ME-Q65)**Examine the following code and select the correct statements (choose 2

options).

class Bottle {

    void Bottle() {}

    void Bottle(WaterBottle w) {}

}

class WaterBottle extends Bottle {}

* **a**A base class can’t pass reference variables of its defined class as method parameters in constructors.
* **b**The class compiles successfully—a base class can use reference variables of its derived class as method parameters.
* **c**The class Bottle defines two overloaded constructors.
* **d**The class Bottle can access only one constructor.

**ME-Q66)**Given the following code, which option, if used to replace /\* INSERT CODE HERE \*/, will cause the code to print 110? (Select 1 option.)

class Book {

    private int pages = 100;

}

class Magazine extends Book {

    private int interviews = 2;

    private int totalPages() { /\* INSERT CODE HERE \*/ }

    public static void main(String[] args) {

        System.out.println(new Magazine().totalPages());

} }

**a**return super.pages + this.interviews\*5;

**b**return this.pages + this.interviews\*5;

**c**return super.pages + interviews\*5;

**d**return pages + this.interviews\*5;

**e**None of the above

**ME-Q67)**Given the following code,

class NoInkException extends Exception {}

class Pen{

    void write(String val) throws NoInkException {

        int c = (10 - 7)/ (8 - 2 - 6);

    }

    void article() {

        //INSERT CODE HERE

    }

}  
which of the options, when inserted at //INSERT CODE HERE, will define a valid use of

the method write in the method article? (Select 2 options.)

* **a**try {  
  new Pen().write("story");   
          } catch (NoInkException e) {}
* **b**try {  
  new Pen().write("story");   
  } finally {}
* **c**try { write("story");   
          } catch (Exception e) {}
* **d**try {  
  new Pen().write("story");   
          } catch (RuntimeException e) {}

**ME-Q68)**What is the output of the following code? (Select 1 option.)

class EMyMethods {

    static String name = "m1";

    void riverRafting() {

        String name = "m2";

        if (8 > 2) {

            String name = "m3";

            System.out.println(name);

        }

    }

    public static void main(String[] args) {

        EMyMethods m1 = new EMyMethods();

        m1.riverRafting();

    }

}

* **a**m1
* **b**m2
* **c**m3
* **d**The code fails to compile.

**ME-Q69)**What is the output of the following code? (Select 1 option.)

class EBowl {

    public static void main(String args[]) {

        String eFood = "Corn";

        System.out.println(eFood);

        mix(eFood);

        System.out.println(eFood);

    }

    static void mix(String foodIn) {

        foodIn.concat("A");

        foodIn.replace('C', 'B');

    }

}

}

* **a**Corn BornA
* **b**Corn CornA
* **c**Corn Born
* **d**Corn Corn

**ME-Q70)**Which statement is true for the following code? (Select 1 option.)

class SwJava {

    public static void main(String args[]) {

        String[] shapes = {"Circle", "Square", "Triangle"};

        switch (shapes) {

} }

case "Square": System.out.println("Circle"); break;

case "Triangle": System.out.println("Square"); break;

case "Circle": System.out.println("Triangle"); break;

* **a**The code prints Circle.
* **b**The code prints Square.
* **c**The code prints Triangle.
* **d**The code prints   
    Circle
* Square
* Triangle
* **e**The code prints   
    Triangle
* Circle
* Square
* **f**The code fails to compile.

**ME-Q71)**Given the following definition of the classes Person, Father, and Home, which option, if used to replace //INSERT CODE HERE, will cause the code to compile successfully? (Select 3 options.)

class Person {}

class Father extends Person {

    public void dance() throws ClassCastException {}

}

class Home {

    public static void main(String args[]) {

        Person p = new Person();

        try {

            ((Father)p).dance();

        }

        //INSERT CODE HERE

    }

}

* **a**catch (NullPointerException e) {} catch (ClassCastException e) {} catch (Exception e) {}  
  catch (Throwable t) {}
* **b**catch (ClassCastException e) {} catch (NullPointerException e) {} catch (Exception e) {}  
  catch (Throwable t) {}
* **c**catch (ClassCastException e) {} catch (Exception e) {}  
  catch (NullPointerException e) {} catch (Throwable t) {}
* **d**catch (Throwable t) {}  
  catch (Exception e) {}  
  catch (ClassCastException e) {} catch (NullPointerException e) {}
* **e**finally {}

**ME-Q72)**What is the output of the following code? (Select 1 option.)

import java.time.\*;

class Camera {

    public static void main(String args[]) {

        int hours;

        LocalDateTime now = LocalDateTime.of(2020, 10, 01, 0 , 0);

        LocalDate before = now.toLocalDate().minusDays(1);

        LocalTime after = now.toLocalTime().plusHours(1);

        while (before.isBefore(after) && hours < 4) {

            ++hours;

}

        System.out.println("Hours:" + hours);

    }

}

**a** The code prints Camera:null.  
**b** The code prints Camera:Adjust settings manually.

**c** The code prints Camera:.  
**d** The code will fail to compile.

**ME-Q73)**The output of the class TestEJavaCourse, defined as follows, is 300:

class Course {

    int enrollments;

}

class TestEJavaCourse {

    public static void main(String args[]) {

        Course c1 = new Course();

        Course c2 = new Course();

        c1.enrollments = 100;

        c2.enrollments = 200;

        System.out.println(c1.enrollments + c2.enrollments);

} }

What will happen if the variable enrollments is defined as a static variable? (Select 1 option.)

* **a**No change in output. TestEJavaCourse prints 300.
* **b**Change in output. TestEJavaCourse prints 200.
* **c**Change in output. TestEJavaCourse prints 400.
* **d**The class TestEJavaCourse fails to compile.

**ME-Q74)**What is the output of the following code? (Select 1 option.)

String ejgStr[] = new String[][]{{null},new String[]{"a","b","c"},{new

     String()}}[0] ;

String ejgStr1[] = null;

String ejgStr2[] = {null};

System.out.println(ejgStr[0]);

System.out.println(ejgStr2[0]);

System.out.println(ejgStr1[0]);

* **a**null NullPointerException
* **b**null null   
          NullPointerException
* **c**NullPointerException

**d**null null null

**ME-Q75)**Examine the following code and select the correct statement (choose 1 option).

import java.util.\*;

class Person {}

class Emp extends Person {}

class TestArrayList {

    public static void main(String[] args) {

ArrayList<Object> list = new ArrayList<>();

list.add(new String("1234"));

list.add(new Person());

list.add(new Emp());

list.add(new String[]{"abcd", "xyz"});

list.add(LocalDate.now().plus(1));

} }

* **a**The code on line 1 won’t compile.
* **b**The code on line 2 won’t compile.
* **c**The code on line 3 won’t compile.
* **d**The code on line 4 won’t compile.
* **e**The code on line 5 won’t compile.
* **f**None of the above.

**g**All the options from (a) through (e).

**ME-Q76)**What is the output of the following code? (Select 1 option.)

public class If2 {

    public static void main(String args[]) {

int a = 10; int b = 20; boolean c = false;

if (b > a) if (++a == 10) if (c!=true) System.out.println(1);

else System.out.println(2); else System.out.println(3);

} }

**a**1  
**b**2  
**c**3  
**d**No output

**ME-Q77)**Given the following code,

interface Movable {

    default int distance() {

return 10; }

}

interface Jumpable {

    default int distance() {

return 10; }

}

which options correctly define the class Person that implements interfaces Movable

and Jumpable? (Select 1 option.)

* **a**class Person implements Movable, Jumpable {}
* **b**class Person implements Movable, Jumpable { default int distance() {   
  return 10; }   
  }
* **c**class Person implements Movable, Jumpable { public int distance() {   
  return 10; }   
  }
* **d**class Person implements Movable, Jumpable { public long distance() {   
  return 10; }   
  }
* **e**class Person implements Movable, Jumpable { int distance() {   
  return 10; }   
  }