Java: Classes and Methods -I

Quiz

Question 1

```java
public class Person{

private void secret(){

private String msg="Hello"; // line 2

System.out.println(msg);

}

public static void main(String str[]){

new Person().secret(); //line 1

}
```

A. Code prints: Hello

B. Code prints nothing

C. Compilation error occurs at line marked 1

D. Compilation error occurs at line marked 2

```
public class Person{

private void secret(){

private String msg="Hello"; // line 2

System.out.println(msg);

}

public static void main(String str[]){

new Person().secret(); //line 1

}
```

A. Code prints: Hello

B. Code prints nothing

C. Compilation error occurs at line marked 1

D. Compilation error occurs at line marked 2

Question 2

```java
public class A {

  public static void main(String[] args) {

      int i=10; int j=20;

      System.out.print(i + j + "" + i + j);

 }}
```

What is the result of attempting to compile and run the program?

A. Prints 10201020

B. Prints 301020

C. Prints 3030

D. Prints: 102030

Question 2

```java
public class A {

  public static void main(String[] args) {

     int i=10; int j=20;

     System.out.print(i + j + "" + i + j);

 }}
```

What is the result of attempting to compile and run the program?

A. Prints 10201020

B. Prints 301020

C. Prints 3030

D. Prints: 102030

Question 3

```
public class Person{

public String name;

public static void main(String str[]){

Person p=null;

System.out.print(p instanceof Person);

}
```

What is the result of compilation or execution of the code?

- A. Prints `false`
- B. Prints `true`
- C. Results in compilation error
- D. Results in runtime error

Question 3

```
public class Person{

public String name;

public static void main(String str[]){

Person p=null;

System.out.print(p instanceof Person);

}
```

What is the result of compilation or execution of the code?

A. Prints `false`

B. Prints `true`

C. Results in compilation error

D. Results in runtime error

Question 4

"There is exactly one copy of this variable in existence, regardless of how many times the class has been instantiated."

The statement above is referring to

    A.   Local variable

    B.   Global variable

    C.   Instance variable

    D.   static variable

Question 4

"There is exactly one copy of this variable in existence, regardless of how many times the class has been instantiated."

The statement above is referring to

    A.   Local variable

    B.   Global variable

    C.   Instance variable

    D.   static variable

Question 5

```
1. public class Person{

2. private String name;

3. public static void main(String str[]){

4. Person p=new Person();

5. _____

6. System.out.print(p.name);

7. }}
```

What statement can be put in line 5 so that the code prints "Rita"?

```
A. p.name="Rita";

B. p.setName("Rita");

C. name="Rita";

D. None of the above
```

Question 5

```
1. public class Person{

2. private String name;

3. public static void main(String str[]){

4. Person p=new Person();

5. _____

6. System.out.print(p.name);

7. }}
```

What statement can be put in line 5 so that the code prints "Rita"?

A. `p.name="Rita";`

B. `p.setName("Rita");`

C. `name="Rita";`

D. `None of the above`

Question 6

```java
public class Test{

  public  static int m1(int x) {return ++x;}

  public static void main (String[] args) {

      int x = 1;

      int y = m1(x);

      System.out.println(x + "," + y);

}}
```

What is the result of attempting to compile and run the program?

A. prints 1,2

B. prints 1,1

C. Compilation error. m1() cannot be called without Test instance

D. Prints nothing

```java
public class Test{

  public  static int m1(int x) {return ++x;}

  public static void main (String[] args) {

       int x = 1;

       int y = m1(x);

       System.out.println(x + "," + y);

}}
```

What is the result of attempting to compile and run the program?

A. prints 1,2

B. prints 1,1

C. Compilation error. m1() cannot be called without Test instance

D. Prints nothing

```
public class A {

  public A() {}          // 1

  private  int A;        // 2

  public void A() {}    // 3

}
```

Which line causes compilation error?

A. Line marked 1 because method does not have return type.

B. Line marked 2 because member variable name and class name clash

C. Line marked 3 because method name is same as the class name

D. There is no compilation error anywhere

Question 7

```
public class A {

   public A() {}          // 1

   private  int A;         // 2

   public void A() {}      // 3

}
```

Which line causes compilation error?

A. Line marked 1 because method does not have return type.

B. Line marked 2 because member variable name and class name clash

C. Line marked 3 because method name is same as the class name

D. There is no compilation error anywhere

```
public class Test{

  private static int x=1;

  public    static void m1(int i) {x+=i; i++;}

  public static void main (String[] args) {

    int y=1;

    m1(y);

    System.out.println(x + "," + y); }}
```

What is the result of attempting to compile and run the program?

    A. prints 1,2

    B. prints 2,1

    C. Prints 1,1

    D. Prints 2,2

```java
public class Test{

  private static int x=1;

  public    static void m1(int i) {x+=i; i++;}

  public static void main (String[] args) {

    int y=1;

    m1(y);

    System.out.println(x + "," + y); }}
```

What is the result of attempting to compile and run the program?

   A. prints 1,2

   B. prints 2,1

   C. Prints 1,1

   D. Prints 2,2

Question 9

Which of the following is false?

A. Class name and constructor name must be same

B. Constructor does not have return type

C. Constructor must be `public`

D. Constructor cannot be `static`

Question 9

Which of the following is false?

A. Class name and constructor name must be same

B. Constructor does not have return type

C. Constructor must be `public`

D. Constructor cannot be `static`

```java
public class A {

public static void main(String[] args){

int[] matrix1[]={{1,1},{1,1},{1,1}};

int[] matrix2[]={{2,2,2,2,2,2}};

System.out.print(matrix1.length);

System.out.println(" "+matrix2.length);

}}
```

What is the result of compilation and execution of the code?

A. 2 6

B. 3 1

C. 2 1

D. Compilation error

```
public class A {

public static void main(String[] args){

int[] matrix1[]={{1,1},{1,1},{1,1}};

int[] matrix2[]={{2,2,2,2,2,2}};

System.out.print(matrix1.length);

System.out.println(" "+matrix2.length);

}}
```

What is the result of compilation and execution of the code?

A. 2 6

B. 3 1

C. 2 1

D. Compilation error

Question 11

Assume the below give code snippet.

```
15. String a=new String ();

16. String b=new String ();

17. String c=new String ();

18. String d=new String ();

19. d=c=b=a;

20. d=null;
```

At the end of line 20, how many objects are eligible   for garbage collection?

A. 1

B. 2

C. 3

D. 4

Assume the below give code snippet.

```
15. String a=new String ();

16. String b=new String ();

17. String c=new String ();

18. String d=new String ();

19. d=c=b=a;

20. d=null;
```

At the end of line 20, how many objects are eligible   for garbage collection?

A.   1

B.   2

C.   3

D.   4

```
public class Test1 {

public static void main(String[] args) {

int[]a1[] = {{1,2},{3,4,5},{6,7,8,9},{}};

        for (int i = 0; i < a1.length; i++) {

            System.out.print(a1[i].length+",");

  }

}}
```

What is the result of attempting to compile and run the program?

A. Prints: 2,3,4,0,

B. Prints: 1,2,5,0,

C. Compile-time error

D. Run-time error

```
public class Test1 {

public static void main(String[] args) {

int[]a1[] = {{1,2},{3,4,5},{6,7,8,9},{}};

        for (int i = 0; i < a1.length; i++) {

            System.out.print(a1[i].length+",");

  }

}}
```

What is the result of attempting to compile and run the program?

A. Prints: 2,3,4,0,

B. Prints: 1,2,5,0,

C. Compile-time error

D. Run-time error

Question 13

Given the following,

```
public class CommandArgs {

    public static void main(String [] args) {

    String s1 = args[1];    String s2 = args[2];

      System.out.print(s1 + s2);        }       }
```

The code is compiled and execute using the following command

java CommandArgs 1 2 3 4 . What will be displayed?

A. 12

B. 23

C. 5

D. nothing

Question 13

Given the following,

```java
public class CommandArgs {

    public static void main(String [] args) {

    String s1 = args[1];    String s2 = args[2];

      System.out.print(s1 + s2);       }      }
```

The code is compiled and execute using the following command

java CommandArgs 1 2 3 4 . What will be displayed?

A. 12

B. 23

C. 5

D. nothing

Question 14

```
int a[]= {1,2,3,4,5};

for( _____)

System.out.println(j);
```

What needs to be filled in order to print the content of the array?

A. j:a

B. int j:a

C. a:int j

D. int a:j

```
int a[]= {1,2,3,4,5};

for( _____)

System.out.println(j);
```

What needs to be filled in order to print the content of the array?

A. j:a

B. int j:a

C. a:int j

D. int a:j

What is the result of compiling and executing the code?

```
public class A {

        static String s1;

        static String s2;

    public static void main(String args[])  {

            s2 = s1+s2;

      System.out.println(s2);

   } }
```

A. Prints nullnull

B. Compilation error

C. NullPointerException is thrown at runtime

D. Prints nothing

What is the result of compiling and executing the code?

```
public class A {
        static String s1;
        static String s2;
    public static void main(String args[])  {
            s2 = s1+s2;
      System.out.println(s2);
    } }
```

A. Prints nullnull

B. Compilation error

C. NullPointerException is thrown at runtime

D. Prints nothing

Question 16

- Assume the below give code snippet.

```
15. String a="1";

16. String b="1";

17. String c="1";

18. String d="1";

19. d=c=b=a;

20. d=null;
```

At the end of line 20, how many instances are destroyed.

A. 1

B. 2

C. 3

D. none

Question 16

- Assume the below give code snippet.

```
15. String a="1";
16. String b="1";
17. String c="1";
18. String d="1";
19. d=c=b=a;
20. d=null;
```

At the end of line 20, how many instances are destroyed.

A. 1

B. 2

C. 3

D. none

```
public class B{
public static void main(String[] args){
final String a[];//line 1
a= args;//line 2
a[0]="a";//line 3
a[3]="b";//line 4
a=new String[2];//line 5
}}
```

Which of the following statements are true?

A. Line 1 gives compilation error
B. Line 2 gives compilation error
C. Line 4 will throw an runtime error
D. Line 5 gives compilation error

Question 17

```
public class B{
public static void main(String[] args){
final String a[];//line 1
a= args;//line 2
a[0]="a";//line 3
a[3]="b";//line 4
a=new String[2];//line 5
}}
```

Which of the following statements are true?

A. Line 1 gives compilation error
B. Line 2 gives compilation error
C. Line 3 will throw runtime error
D. Line 5 gives compilation error