

Examen Diagnostico de Java

Nombre: _____
Empresa/Universidad: _____
Celular: _____

Fecha: _____ Aciertos: _____

Resolver: preguntas de opción múltiple

Pregunta 1

```
1. int []a = {1,2,3,4,5,6};  
2. int i = a.length - 1;  
3.  
4. while(i>=0){  
5. System.out.print(a[i]);  
6. i--;  
7. }
```

What is the result?

- A. 123456
- B. An exception could be thrown at runtime.
- C. 654321
- D. nothing
- E. 65432
- F. 12345

Pregunta 2

```
1. class Ex6{  
2. public static void main(String args[]){  
3. int x=0, y=10;  
4. try{  
5. y /=x;  
6. }  
7. System.out.print("/ by 0");  
8. catch(Exception e){  
9. System.out.print("error");  
10. }  
11. } }
```

What is the result? FIX ANSWER E PROBLEM

- A. 0
- B. error
- C. Compilation fails
- D. An uncaught exception is thrown at runtime.
- E. No output

Pregunta 3

- A and E are classes
- B and D are interfaces
- C is an abstract class

Which are true? (Choose 3)

- A. class F implements B, C { }
- B. class F implements B { }
- C. class F extends A, E { }
- D. class F extends E { }
- E. class F implements B, D { }

Pregunta 4

- A and E are classes
- B and D are interfaces

Which are true? (Choose 2)

- A. interface F implements B, D { }
- B. interface F implements D { }
- C. interface F extends D { }
- D. interface F extends E { }
- E. interface F extends B, D { }

Pregunta 5

```
1. class Ex1{  
2. public static void main(String[] args) {  
3. int a[] = { 1, 2, 053, 4};  
4. int b[][]={{1,2,4}, {2,2,1}, {0,43,2}};  
5. System.out.print(a[3]==b[0][2] );  
6. System.out.print(" " + (a[2]==b[2][1]));  
7. }  
8. }
```

Which is the result?

- A. true false
- B. false false
- C. false true
- D. true true
- D. Compilation fails

Pregunta 6

```
1. class Ex1{
2. public static void main(String[] args) {
3. int a[][] = new int[3][];
4. a[1] = new int[]{1,2,3};
5. a[2] = new int[]{4,5};
6. System.out.print(a[1][1]);
7. }
8. }
```

Which is the output?

- A. Compilation fails due to line 3.
- B. Compilation fails due to line 4.
- C. An exception will be thrown in runtime.
- D. 2
- E. 3
- F. 5

Pregunta 7

Choose the three legal identifiers.

- A. 1stName
- B. _4_
- C. @name
- D. \$
- E. getSize

Pregunta 8

```
1. class Ex1{
2. int a=10;
3. public static void main(String[] args) {
4. new Ex1().print();
5. }
6. public void print(){
7. int a = 8;
8. System.out.print(a + " ");
9. }
10. }
```

What is the result?

- A. 10
- B. Compilation fails.
- C. 18
- D. Output is unpredicatable.
- E. 8

Pregunta 9

```
1. class Ex1{
2. public static void main(String[] args) {
3. new Ex1().pass();
4. }
5.
6. public void pass(){
7. int a=10 , b=20;
8. print(a) ;
9. }
10.
11. public void print(int a){
12. int c = b/a;
13. System.out.print(c);
14. }
15. }
```

What is the result?

- A. 2
- B. Compilation fails due to an error on line 8.
- C. Compilation fails due to an error on line 7.
- D. 0
- E. Compilation fails due to an error on line 12.

Pregunta 10

```
1. class Ex1{
2. static int x = 10;
3. public static void main(String[] args) {
4. for(int x=0;x<5;x++){
5. }
6. System.out.print(x);
7. }
8. }
```

What is the result?

- A. 4
- B. 5
- C. Compilation fails.
- D. 10
- E. A runtime exception will be thrown.

Pregunta 11

```
1. class Person{
2. Person(String s,int i ){
3. ++pid;
4. name=s;
5. age=i;
6. }
7. static int pid;
8. int age;
9. String name;
10. }
11. class Test{
12. public static void main(String args[]){
13. Person p1 = new Person("John" , 22);
14. Test te = new Test();
15. Person p2 = te.change(p1);
16. System.out.println(p2.pid+" "+p2.name+" "+p2.age);
17. System.out.println(p1.pid+" "+p1.name+" "+p1.age);
18. }
19. private Person change(Object o){
20. Person p2 = (Person)o;
21. p2.age = 25;
22. return p2;
23. }
24. }
```

What is the result?

- A. 1 John 25
1 John 25
- B. 1 John 25
1 John 22
- C. 1 John 22
1 John 22
- D. ClassCastException is thrown at runtime.
- E. Compilation fails.

Pregunta 12

```
1. class Ex1{
2. public static void main(String args[]){
3. int x = 10;
4. int y = new Ex1().change(x);
5. System.out.print(x+y);
6. }
7. int change(int x){
8. x=12;
9. return x;
10. }
11. }
```

What is the result?

- A. 20
- B. 22
- C. Compilation fails.
- D. 24
- E. An exception is thrown at runtime.

Pregunta 13

```
1. class S{
2. public static void main(String [] args){
3. String s = "Java";
4. s.concat(" SE 6");
5. s.replace('6','7');
6. System.out.print(s);
7. }
8. }
```

What is the result?

- A. Java SE 6
- B. Java SE 7
- C. Java SE
- D. Java
- E. Compilation fails.

Pregunta 14

Can main() be overloaded?

- True
- False

Pregunta 15

```
class Foo {  
    int x = 3;  
    public static void main(String[] args) {  
        System.out.println("x is " + x);  
    }  
}
```

- A Error de compilación
- B x is 3
- C Error de ejecución
- D x is null

Pregunta 16

```
interface definitions that define constants  
public static final int x = 1;
```

- A True
- B False

Pregunta 17

```
class Course {  
    String courseName;  
}  
class EJavaGuru {  
    public static void main(String args[]) {  
        Course c = new Course();  
        c.courseName = "Java";  
        System.out.println(c.courseName);  
    }  
}
```

Which of the following statements will be true if the variable courseName is defined as a private variable?

- a The class EJavaGuru will print Java.
- b The class EJavaGuru will print null.
- c The class EJavaGuru won't compile.
- d The class EJavaGuru will throw an exception at runtime.

Pregunta 18

```
package com.ejavaguru.courses;  
class Course {  
    public String courseName;  
}
```

what's the output of the following code?

```
package com.ejavaguru;  
import com.ejavaguru.courses.Course;  
  
class EJavaGuru {  
    public static void main(String args[]) {  
        Course c = new Course();  
        c.courseName = "Java";  
        System.out.println(c.courseName);  
    }  
}
```

- a The class EJavaGuru will print Java.
- b The class EJavaGuru will print null.
- c The class EJavaGuru will not compile.
- d The class EJavaGuru will throw an exception at runtime.

Pregunta 19

```
package com.ejavaguru.courses;  
class Course {  
    public String courseName;  
    public void setCourseName(private String  
name) {  
        courseName = name;  
    }  
}
```

- a You can't define a method argument as a private variable.
- b A method argument should be defined with either public or default accessibility.
- c For overridden methods, method arguments should be defined with protected accessibility.
- d None of the above.

Pregunta 20

```
class EJavaGuru {  
    public static void main(String[] args) {  
        System.out.println(args[1]+":"+  
args[2]+":"+ args[3]);  
    }  
}
```

what is the output of EJavaGuru, if it is executed using the following command?
java EJavaGuru one two three four

- a one:two:three
- b EJavaGuru:one:two
- c java:EJavaGuru:one
- d two:three:four