Here is the full text content of the PDF document you provided:

1. ¿Que arroja?

```
public class Main {
      public static void main(String[] args) {
            String[] at = {"FINN", "JAKE"};
            for (int x=1; x<4; x++){
                  for (String s : at){
                        System.out.println(x + " "+ s);
                        if(x==1){
                               break;
                         }
                  }
            }
      }
//1 FINN 2 FINN 2 JAKE 3 FINN 3 JAKE
2. ¿Qué 5 líneas son correctas?
class Light{
      protected int lightsaber(int x){return 0;}
}
class Saber extends Light{
      private int lightsaber (int x){return 0;} // Error el modificador de
acceso en la clase derivada no puede ser más restrictivo que el modificador de acceso en la
clase base
      protected int lightsaber (long x){return 0;} // Correcto
Sobreescritura de metodo adecuada, por cambio de parametro
      private int lightsaber (long x){return 0;} // Correcto No se esta
sobreescribiendo el metodo, al tener otro parámetro se trata de un metodo independiente
      protected long lightsaber (int x){return 0;} // Error Para que la
sobrescritura sea válida, los métodos deben tener la misma firma, incluyendo el tipo de
retorno.
      protected long lightsaber (int x, int y){return 0;} //Correcto
      public int lightsaber (int x){return 0;} // Correcto
```

```
protected long lightsaber (long x){return 0;} // Valido por
ser sobrecarga de metodo
}
3. ¿Que resultado arroja?
class Mouse{
     public int numTeeth;
     public int numWhiskers;
     public int weight;
     public Mouse (int weight){
           this(weight, 16);
     }
     public Mouse (int weight, int numTeeth){
           this(weight, numTeeth, 6);
     }
     public Mouse (int weight, int numTeeth, int numWhiskers){
           this.weight = weight;
           this.numTeeth= numTeeth;
           this.numWhiskers = numWhiskers;
     }
     public void print (){
           System.out.println(weight + ""+ numTeeth+ ""+
     numWhiskers);
     }
     public static void main (String [] args){
           Mouse mouse = new Mouse (15);
           mouse.print();
     }
}
// Salida: 15 , 16 , 6
4. ¿Cual es la salida?
class Arachnid {
     public String type = "a";
     public Arachnid(){
           System.out.println("arachnid");
```

```
}
}
class Spider extends Arachnid{
     public Spider(){
           System.out.println("spider");
     void run(){
           type = "s";
           System.out.println(this.type + " " + super.type);
     }
     public static void main(String[] args) {
           new Spider().run();
     }
}
// arachnid spider s s
5. Resultado
A)
class Test {
     public static void main(String[] args) {
           int b = 4;
           b--;
           System.out.println(--b);
           System.out.println(b);
     }
}
// Respuesta correcta: 2, 2
B)
class Sheep {
     public static void main(String[] args) {
     int ov = 999;
     ov--;
     System.out.println(--ov);
     System.out.println(ov);
}
// Respuesta correcta: 997, 997
6. Resultado
class Overloading {
     public static void main(String[] args) {
```

```
System.out.println(overload("a"));
           System.out.println(overload("a", "b"));
           System.out.println(overload("a", "b", "c"));
     }
     public static String overload(String s){
           return "1";
     public static String overload(String... s){
           return "2";
     public static String overload(Object o){
           return "3";
     public static String overload(String s, String t){
           return "4";
     }
// Salida: 1, 4, 2
7. Resultado
class Base1 extends Base{
     public void test(){
           System.out.println("Base1");
     }
}
class Base2 extends Base{
     public void test(){
           System.out.println("Base2");
     }
class Test {
     public static void main(String[] args) {
           Base obj = new Base1();
           ((Base2) obj).test();
     }
}
```

// ClassCastException:se produce cuando se intenta realizar una conversión de tipos entre clases no relacionadas en una jerarquía de herencia

```
8. Resultado
```

```
public class Fish {
    public static void main(String[] args) {
        int numFish = 4;
        String fishType= "Tuna";
        String anotherFish = numFish +1;
        System.out.println(anotherFish + " " + fishType);
        System.out.println(numFish + " " + 1);
    }
}
```

// El código no compila, ya que al crear anotherFish le estamos pasando un int en lugar de un string, y no puede asignarlo, si quisiéramos hacer que funcionara podríamos hacer numFish + 1 + " ";

9. Resultado

```
class MathFun {
    public static void main(String[] args) {
        int number1 = 0b0111;
        int number2 = 0111_000;

        System.out.println("Number1: "+number1);
        System.out.println("Number2: "+number1);
    }
}
//Salida: 7 7 ojo que imprime dos veces number 1
```

10. Resultado

```
class Calculator {
    int num =100;
    public void calc(int num){
        this.num =num*10;
    }
    public void printNum(){
        System.out.println(num);
    }
    public static void main (String [] args){
        Calculator obj = new Calculator ();
        obj.calc(2);
        obj.printNum();
    }
}
```

```
11. Que Aseveraciones son correctas
class ImportExample {
     public static void main (String [] args){
           Random r = new Random();
           System.out.println(r.nextInt(10));
     }
}
* If you omit java.util import statements java compiles gives you an
* java.lang and util.random are redundant
* you dont need to import java.lang
// "Si omites las sentencias de importación de java.util, Java te
dará un error al compilar".
//Esta es correcta ya que estamos utilizando Random y este se
encuentra en java.util.
// No necesitas importar java.lang.
//Esto es correcto porque por defecto java ya importa esto por
nosotros.
12. Resultado
public class Main {
     public static void main(String[] args) {
           int var = 10;
           System.out.println(var++);
           System.out.println(++var);
     }
}
//salida: 10, 12
13. Resultado
class MyTime {
     public static void main (String [] args){
           short mn =11;
           short hr:
           short sg = 0;
           for (hr=mn;hr>6;hr-=1){
                sq++;
```

```
}
     System.out.println("sg="+sg);
// Salida sg=5; Respuesta correcta mn = 11
14. Cuales son verdad
* An ArrayList is mutable:
* An Array has a fixed size
* An array is mutable
* An array allows multiple dimensions
* An arrayList is ordered
* An array is ordered
// Todas son verdaderas
15. Resultado
public class MultiverseLoop {
     public static void main (String [] args){
           int negotiate = 9;
           do{
                System.out.println(negotiate);
           }while (--negotiate);
} //Errores de compilacion, necesita un bool el while
16 Resultado
class App {
     public static void main(String[] args) {
           Stream<Integer> nums = Stream.of(1,2,3,4,5);
           nums.filter(n \rightarrow n \% 2 == 1);
           nums.forEach(p -> System.out.println(p));
}//Exception at runtime, se debe encadernar el stream por que se
consume
17 Pregunta
Suppose the declared type of x is a class, and the declared type of
y is an interface. When is the assignment x = y; legal?
* When the type of X is Object
```

18 Pregunta

when a byte is added to a char, what is the type of the result? * int

// Esto es así por que al realizar operaciones, no importa que tengamos un byte o un char, nos lo pasara a int en automático después de la misma.

19 Pregunta

the standart application programmming interface for accesing databases in java?

* JDBC segun CHATGPT

20 Pregunta

Which one of the following statements is true about using packages to organize your code in Java ?

* Packages allow you to limit access to classes, methods, or data

* Packages allow you to limit access to classes, methods, or data from classes outside the package.

21 Pregunta

```
Forma correcta de inicializar un booleano * boolean a = (3>6);
```

// Podemos inicializar de esta forma un boolean por que el resultado de 3>6 nos retorna false, que es en efecto un boolean.

22 Pregunta

Pregunta repetida

23 Pregunta

```
class Y{
    public static void main(String[] args) throws IOException {
        try {
            doSomething();
        }catch (RuntimeException exception){
            System.out.println(exception);
        }
    }
    static void doSomething() throws IOException {
```

```
if (Math.random() > 0.5){
                throw new RuntimeException();
           }
     }
* Adding throws IOException to the main() method signature
24 Resultado
interface Interviewer {
     abstract int interviewConducted();
}
public class Manager implements Interviewer{
     int interviewConducted() {
           return 0;
}//No compilara, ya que esta reduciendo la visibilidad de
interviewConducted en la clase, ya que los metodos en las interfaces
son por defecto public, y esto no se puede hacer.
25 Pregunta
class Arthropod {
     public void printName(double Input){
           System.out.println("Arth");
     }
}
class Spider extends Arthropod {
     public void printName(int input) {
           System.out.println("Spider");
     public static void main(String[] args) {
           Spider spider = new Spider();
           spider.printName(4);
           spider.printName(9.0);
} // Spider, Arth
26 Pregunta
public class Main {
     public enum Days{Mon, Tue, Wed}
           public static void main(String[] args) {
                for (Days d:Days.values()) {
```

```
Days[] d2 = Days.values();
                      System.out.println(d2[2]);
                }
           }
// wed, Wed, Wed
27 Pregunta
public class Main{
     public enum Days {MON, TUE, WED};
     public static void main(String[] args) {
           boolean x = true, z = true;
           int y = 20;
           x = (y!=10)^(z=false);
           System.out.println(x + " " + y + " " + z);
     }
}// true 20 false
28 Pregunta
class InitializacionOrder {
     static {add(2);}
     static void add(int num){
           System.out.println(num+"");
     InitializacionOrder(){add(5);}
     static {add(4);}
     {add(6);}
     static {new InitializacionOrder();}
     {add(8);}
     public static void main(String[] args) {}
} //2 4 6 8 5
29 Pregunta
public class Main {
     public static void main(String[] args) {
           String message1 = "Wham bam";
           String message2 = new String("Wham bam");
           if (message1!=message2){
                System.out.println("They dont match");
           }else {
                System.out.println("They match");
           }
```

```
}
}
// They dont match
30 Pregunta
class Mouse{
     public String name;
     public void run(){
           System.out.println("1");
           try{
                 System.out.println("2");
                 name.toString();
                 System.out.println("3");
           }catch(NullPointerException e){
                 System.out.println("4");
                 throw e;
           }
           System.out.println("5");
     public static void main(String[] args) {
           Mouse jerry = new Mouse();
           jerry.run();
           System.out.println("6");
} // Salida 1 2 4 NullPointerException
31 pregunta
public class Main {
     public static void main(String[] args) {
           try (
                 Connection con = DriverManager
                       .getConnection(url, uname, pwd
                 )){
                       Statement stmt =con.createStatement();
                       System.out.print(stmt.exeuteUpdate("
                             INSERT INTO User
                             VALUES (500, 'Ramesh')"
                       ));
                 }
     }
// Salida: arroja 1
```

```
32 pregunta
```

```
class MarvelClass{
      public static void main (String [] args){
            MarvelClass ab1, ab2, ab3;
            ab1 =new MarvelClass();
            ab2 = new MarvelMovieA();
            ab3 = new MarvelMovieB();
            System.out.println (
                  "the profits are " + ab1.getHash()+ "," +
                  ab2.getHash()+","+ab3.getHash());
      }
      public int getHash(){
            return 676000;
      }
}
class MarvelMovieA extends MarvelClass{
      public int getHash (){
            return 18330000;
      }
}
class MarvelMovieB extends MarvelClass {
      public int getHash(){
            return 27980000;
      }
}
// the profits are 676000, 18330000, 27980000
33 pregunta
class Song{
      public static void main (String [] args){
            String[] arr = {"DUHAST","FEEL","YELLOW","FIX YOU"};
            for (int i = 0; i \le arr.length; i++){
                  System.out.println(arr[i]);
            }
      }
//4 An arrayindexoutofbondsexception
34 pregunta
class Menu {
      public static void main(String[] args) {
            String[] breakfast = {"beans", "egg", "ham", "juice"};
```

```
for (String rs : breakfast) {
                 int dish = 2;
                 while (dish < breakfast.length) {</pre>
                       System.out.println(rs + "," + dish);
                       dish++;
                 }
           }
     }
}
/*
beans, 2
beans, 3
egg, 2
egg,3
ham, 2
ham, 3
juice, 2
juice,3
* Respuesta correcta: ONCE */
35 pregunta
Which of the following statement are true:
* string builder es generalmente más rápido qué string buffer
* string buffer is threadsafe; stringbuildder is not
36 pregunta
class CustomKeys{
     Integer key;
     CustomKeys(Integer k){
           key = k;
     }
     public boolean equals(Object o){
           return ((CustomKeys)o).key==this.key;
     }
// Salida: compilation fail
37 pregunta
The catch clause is of the type:
Exception but NOT including RuntimeException
```

```
CheckedException
RunTimeException
Error
38 pregunta
an enhanced for loop
* also called for each, offers simple syntax to iterate through a
collection but it can't be
used to delete elements of a collection
39 pregunta
which of the following methods may appear in class Y, which extends
x ?
public void doSomething(int a, int b){...}
40 pregunta
public class Main {
     public static void main(String[] args) {
           String s1= "Java";
           String s2 = "java";
           if (s1.equalsIgnoreCase(s2)){
                System.out.println ("Equal");
           } else {
                System.out.println ("Not equal");
           }
     }
// Salida: Equal; respuesta: s1.equalsIgnoreCase(s2)
41 pregunta
class App {
     public static void main(String[] args) {
           String[] fruits = {"banana", "apple", "pears", "grapes"};
           // Ordenar el arreglo de frutas utilizando compareTo
           Arrays.sort(fruits, (a, b) -> a.compareTo(b));
           // Imprimir el arreglo de frutas ordenado
           for (String s : fruits) {
                System.out.println(""+s);
           }
     }
/* apple
```

```
banana
grapes
pears */
42 pregunta
public class Main {
     public static void main(String[] args) {
           int[] countsofMoose = new int [3];
           System.out.println(countsofMoose[-1]);
     }
//this code wull trow an arrayindexoutofboundsexpression
43 Pregunta
class Salmon{
     int count;
     public void Salmon (){
           count =4;
     public static void main(String[] args) {
           Salmon s = new Salmon();
           System.out.println(s.count);
     }
// Salida: 0 -> cero
44 pregunta
class Circuit {
     public static void main(String[] args) {
           runlap();
           int c1=c2;
           int c2 = v;
     }
     static void runlap(){
           System.out.println(v);
     }
     static int v;
}
// corregir linea 6; c1 se le asigna c2 pero c2 aun no se declara
```

```
45 pregunta
class Foo {
     public static void main(String[] args) {
           int a=10;
           long b=20;
           short c=30;
           System.out.println(++a + b++ *c);
} // salida: 611 (11+20*30)
46 pregunta
public class Shop{
     public static void main(String[] args) {
           new Shop().go("welcome",1);
           new Shop().go("welcome", "to", 2);
     public void go (String... y, int x){
           System.out.print(y[y.length-1]+"");
     }
}
// Compilation fails
47 pregunta
class Plant {
     Plant() {
           System.out.println("plant");
     }
class Tree extends Plant {
     Tree(String type) {
           System.out.println(type);
     }
}
class Forest extends Tree {
     Forest() {
           super("leaves");
           new Tree("leaves");
     public static void main(String[] args) {
           new Forest();
     }
```

```
}
/*plant
leaves
plant
leaves*/
48 Pregunta
class Test {
     public static void main(String[] args) {
           String s1 = "hello";
           String s2 = new String ("hello");
           s2=s2.intern(); // el intern() asigna el mismo hash conforme a la cadena
           System.out.println(s1==s2);
     }
} // Salida: true
49 pregunta
Cuál de las siguientes construcciones es un ciclo infinito while:
* while(true);
* while(1==1){}
Pregunta
class SampleClass{
     public static void main(String[] args) {
           AnotherSampleClass asc = new AnotherSampleClass ();
           SampleClass sc = new SampleClass();
           //sc = asc;
           //TODO CODE
     }
}
class AnotherSampleClass extends SampleClass {}
// Respuesta: sc = asc;
50 pregunta
public class Main {
     public static void main(String[] args) {
           int a= 10;
           int b = 37;
           int z=0:
           int w = 0;
           if (a==b){
                 z=3;
```

```
}else if(a>b){
                z=6;
           }
           w=10*z;
           System.out.println(z);
     }
// Salida: 0 -> cero
51 Pregunta
public class Main{
     public static void main(String[] args) {
           course c = new course();
           c.name="java";
           System.out.println(c.name);
     }
}
class course {
     String name;
     course(){
           course c = new course();
           c.name="Oracle";
} // Exception StackOverflowError
52 Pregunta
public class Main{
     public static void main(String[] args) {
           String a;
           System.out.println(a.toString());
} // builder fails
53 Pregunta
public class Main{
     public static void main(String[] args) {
           System.out.println(2+3+5);
           System.out.println("+"+2+3+5);
     }
} // salida 10 + 235
```

```
54 Pregunta
public class Main {
     public static void main(String[] args) {
           int a = 2;
           int b = 2;
           if (a==b)
                System.out.println("Here1");
           if(a!=b)
                System.out.println("here2");
           if (a >= b)
                System.out.println("Here3");
} // salida: Here1 , here 3
55 Pregunta
public class Main extends count {
     public static void main(String[] args) {
           int a = 7;
           System.out.println(count(a,6));
     }
}
class count {
     int count(int x, int y){return x+y;}
}// builder fails
56 Pregunta
class trips{
     void main(){
           System.out.println("Mountain");
     }
     static void main (String args){
           System.out.println("BEACH");
     }
     public static void main (String [] args){
           System.out.println("magic town");
     void mina(Object[] args){
           System.out.println("city");
} // Salida: magic town
```

```
57 Pregunta
public class Main{
     public static void main(String[] args) {
           int a=0;
           System.out.println(a+++2);
           System.out.println(a);
} // salida: 2,1
58 Pregunta
public class Main{
     public static void main(String[] args) {
           List<E> p =new ArrayList<>();
           p.add(2);
           p.add(1);
           p.add(7);
           p.add(4);
     }
} // builder fails
59 Pregunta
public class Car{
     private void accelerate(){
           System.out.println("car acelerating");
     private void break(){
           System.out.println("car breaking");
     public void control (boolean faster){
           if(faster==true)
                accelerate();
           else
                break();
     public static void main (String [] args){
           Car car = new Car();
           car.control(false);
} // break es una palabra reservada
```

60 Pregunta

```
class App {
     App() {
           System.out.println("1");
     App(Integer num) {
           System.out.println("3");
     App(Object num) {
           System.out.println("4");
     }
     App(int num1, int num2, int num3) {
           System.out.println("5");
     }
     public static void main(String[] args) {
           new App(100);
           new App(100L);
     }
} // Salida: 3, 4 ...
61 Pregunta
class App {
     public static void main(String[] args) {
           int i=42;
           String s = (i<40)?"life":(i>50)?"universe":"everething";
           System.out.println(s);
} // Salida: everething
62 Pregunta
class App {
     App(){
           System.out.println("1");
     App(int num){
           System.out.println("2");
     App(Integer num){
           System.out.println("3");
     App(Object num){
           System.out.println("4");
     }
```

```
public static void main(String[] args) {
           String[]sa = {"333.6789","234.111"};
           NumberFormat inf= NumberFormat.getInstance();
           inf.setMaximumFractionDigits(2);
           for(String s:sa){
                System.out.println(inf.parse(s));
           }
     }
} // java: unreported exception java.text.ParseException; must be
caught or declared to be thrown
63 Pregunta
class Y{
     public static void main(String[] args) {
           String s1 = "OCAJP";
           String s2 = "OCAJP" + "";
           System.out.println(s1 == s2);
     }
} // salida: true
64 Pregunta
class Y{
     public static void main(String[] args) {
           int score = 60;
           switch (score) {
                default:
                      System.out.println("Not a valid score");
                case score < 70:
                      System.out.println("Failed");
                      break:
                case score >= 70:
                      System.out.println("Passed");
                      break;
           }
} // salida: Error de compilacion - java: reached end of file while
parsing
65 Pregunta
class Y{
     public static void main(String[] args) {
           int a = 100;
```

```
System.out.println(-a++);
} // salida -100
66 Pregunta
class Y{
     public static void main(String[] args) {
           byte var = 100;
           switch(var) {
                 case 100:
                       System.out.println("var is 100");
                 case 200:
                       System.out.println("var is 200");
                       break;
                 default:
                       System.out.println("In default");
           }
} // salida: Error de compilacion - java: incompatible types:
possible lossy conversion from int to byte
67 Pregunta
class Y{
     public static void main(String[] args) {
           A \text{ obj1} = \text{new } A();
           B obj2 = (B)obj1;
           obj2.print();
     }
}
class A {
     public void print(){
           System.out.println("A");
     }
class B extends A {
     public void print(){
           System.out.println("B");
      }
// ClassCastException
```

```
68 Pregunta
```

class Test {

```
class Y{
     public static void main(String[] args) {
           String fruit = "mango";
           switch (fruit) {
                default:
                      System.out.println("ANY FRUIT WILL DO");
                case "Apple":
                      System.out.println("APPLE");
                case "Mango":
                      System.out.println("MANGO");
                case "Banana":
                      System.out.println("BANANA");
                      break;
                 }
} // ANY FRUIT WILL DO APPLE MANGO BANANA
69 Pregunta
abstract class Animal {
     private String name;
     Animal(String name) {
           this.name = name;
     public String getName() {
           return name;
     }
}
class Dog extends Animal {
     private String breed;
     Dog(String breed) {
           this.breed = breed;
     Dog(String name, String breed) {
           super(name);
           this.breed = breed;
     public String getBreed() {
           return breed;
     }
}
```

```
public static void main(String[] args) {
           Dog dog1 = new Dog("Beagle");
           Dog dog2 = new Dog("Bubbly", "Poodle");
           System.out.println(dog1.getName() + ":" + dog1.getBreed()
           + ":" + dog2.getName() + ":" + dog2.getBreed());
} // compilation fails
70 Pregunta
public class Main {
     public static void main(String[] args) throws ParseException {
           String[]sa = {"333.6789","234.111"};
           NumberFormat nf = NumberFormat.getInstance();
           nf.setMaximumFractionDigits(2);
           for (String s: sa) {
                System.out.println(nf.parse(s));
           }
}/*Salida
333.6789
234.111
*/
71 Pregunta
public class Main {
     public static void main(String[] args) throws ParseException {
           Queue<String> products = new ArrayDeque<String>();
           products.add("p1");
           products.add("p2");
           products.add("p3");
           System.out.println(products.peek());
           System.out.println(products.poll());
           System.out.println("");
           products.forEach(s -> {
                System.out.println(s);
           });
     }
}/**
*p1
* p1
```

```
* p3
*/
```

72 Pregunta

```
public class Main {
    public static void main(String[] args) throws ParseException {
        System.out.println(2+3+5);
        System.out.println("+"+2+3*5);
    }
}// Salida: 10 + 215
```