1. Ինչ կտպի ծրագիրը.

```
List<String>fish=new ArrayList<>();
    fish.add("goldfish");
    fish.add("minnow");
    fish.remove("goldfish");
    fish.remove("shark");
    System.out.println(fish.size());
```

- 0
- 1
- 2
- Կոմպիլացիա չի լինի

2. Ինչ կտպի ծրագիրը.

```
1:public class Egret {
2:      private String color;
3:      public Egret (String color){
4:      color = color;
5: }
6:      public static void main(String[] args) {
7:      Egret e = newEgret();
8:      System.out.println("Color:" + e.color);
9:      } }
```

O Color:

O Color:null

O Color:White

O Compiler error on line 4

O Compiler error on line 7

O Compiler error another line

3. Ի՞նչ կտպի հետյալը.

```
int a=123;
int b=0;
try{
        System.out.print(a / b);
        System.out.print("1");
}catch(ArithmeticException e) {
        System.out.print("2");
}catch (RuntimeException r) {
        System.out.print("3");
}finally {
        System.out.print("4");
}
```

○ 14

○ 2

○ 24

○ 234

○ The code does not compile.

○ An uncaught exception is thrown.

4. Ի՞նչ կտպի հետյալը.

```
String numbers = "2468";
int total = 0;
total += numbers.indexOf("6");
total += numbers.length();
char ch = numbers.charAt(4);
System.out.println(total + " " + ch);
```

○ 5 8

○ 6 8

○ 7 8

○ 8 8

○ An exception is thrown.

○ The code does not compile.

5. Գրել ,թե ինչ տարբերակով է հնարավոր override անել main մեթոդը.

6. **What is the result of following code?**

```java
public class A {
private int i = 6;
private int j = i;

public A() {
        i = 5;
}

publicstaticvoid main(String[] args) {
        A a = new A();
        System.out.println(a.i + a.j);

}

}
```

      A) 55

      B) 56

      C) 66

      D) 10

      E) 11

      F) 12

      G) The code does not compile.

7. **Which of the following are ordered from smallest to largest? (Choose all that apply)**

      A) byte, int, short, long

      B) byte, short, int, long

      C) short, byte, int, long

      D) short, int, byte, long

○E) double, float

○F) float, double

8. **What is the result of the following code?**

```
1:publicclass PrintIntegers {
2:      publicstaticvoid main(String[] args) {
3:              inty = -2;
4:              do System.out.print(++y + " ");
5:              while (y<= 5);
6:      } }
```

○A) -2 -1 0 1 2 3 4 5

○B) -2 -1 0 1 2 3 4

○C) -1 0 1 2 3 4 5 6

○D) -1 0 1 2 3 4 5

○E) The code will not compile because of line 5.

○F) The code contains an infinite loop and does not terminate.

9. **What is the result of following code?**

```
String s= "a";
s += 1;
s.concat(s);
s.concat(".");
System.out.println(s);
```

○A) a

○B) a1

○C) a1a

○D) a1a.

○E) An exception is thrown.

○F) The code does not compile.

10. What is the result of the following?

```
23: List<String>list = Arrays.asList("a", "B", "d", "c");
24:          Collections.sort(list);
25:          String[] array = list.toArray(new String[4]);
26:          for (String string : array) System.out.print(string);
```

    ○A) aBcd

    ○B) aBdc

    ○C) Bacd

    ○D) Compiler error on line 9

    ○E) Compiler error on line 11

    ○F) An exception is thrown.

11. What is the result of this code?

```
1:public class Dino {
2:       final String species = "Triceratops";
3:       double weight;
4:       public Dino(doubleweight){
5:              this.weight = weight;
6:              species = "Raptor";
7:       }
8:       public static void main(String[] args) {
9:              Dino dino = new Dino(500);
10:             System.out.println(dino.weight);
11:      } }
```

    ○A) Compiler error on line 5

    ○B) Compiler error on line 6

    ○C) Compiler error on line 9

    ○D) Compiler error on line 10

    ○E) 500

12. What is the result of the following code snippet?

```
3: String[] values = { "one","two","three"};
4:             for(intindex = 0; index<values.length; index++)
5:                     System.out.print(values[index]);
6:             System.out.print(index);
```

○A) onetwothree

○B) ontwothree2

○C) one0two1three2

○D) The code will not compile because of line 4.

○E) The code will not compile because of line 6.

13. What does the following output?

```
List numberList = Arrays.asList(5, 10, -5, -10);
Collections.sort(numberList);
intfive = Collections.binarySearch(numberList,5);
intfour = Collections.binarySearch(numberList,4);
System.out.println(five + four);
```

○A) -2

○B) -1

○C) 0

○D) 1

○E) 2

○F) An exception is thrown.

○G) The code doesn't compile.

14. Which of the following methods compile?(Choose all that apply)

○A) **boolean** isWaddling1(){
    return true;
    }

○B)**public boolean** isWaddling2(){
 return 0;
    }

○C) **boolean** isWaddling3(){
    return null;
    }

○D) **boolean private** isWaddling4(){
    return null;
    }

○E) **final boolean** isWaddling5(){
    return false;
    }

○F) **boolean final** isWaddling6(){
    return false;
    }

15. What is the result of the following code snippet?

```
3:boolean x = false;
4: int z = 0;
5: do {
6:     if(z>5) {z++; x = true;}
7:     elsez += 3;
8: }while (!(x = true));
9: System.out.print(z);
```

○A) 8

○B) 0

○C) 7

○D) 3

○E) 6

○F) The code will not compile because of line 8.

○G) The code contains an infinite loop and does not terminate.

16. What is the result of the following code snippet?

```
3: String tiger = "Tiger";
4: String lion = "Lion";
5:final String statement = 250 > 380 ? lion : tiger = " is Bigger";
6: System.out.println(statement);
```

○A) Tiger

○B) Lion

○C) Tiger is Bigger

○D) Lion is Bigger

○E) is Bigger

○F) The code will not compile because of line 5.

17. Which is the result of the following?

```
List listOne = new ArrayList();
listOne.add(0.5); listOne.add(3.5);
List listTwo = new ArrayList();
listTwo.add(3.5); listTwo.add(0.5);
if(listOne == listTwo)
        System.out.println("A");
elseif(listOne.equals(listTwo))
        System.out.println("B");
else
```

```
                System.out.println("C");
```

○A) A

○B) B

○C) C

○D) An exception is thrown.

○E) The code does not compile.

18. **Which of braces can be removed without causing a compiler error?(Choose all that apply)**

```java
public static void main(String[] args) {
        intnum1 = 8;
        intnum2 = 8;
        for(inti=0; i< 3; i++) {
                if (num1 == num2) {
                        try {
                                System.out.println("t");
                        }catch (Exception e) {
                                System.out.println("c");
                        }
                }
        }
}
```

○A) The braces for the method

○B) The braces for the loop

○C) The braces for the if statement

○D) The braces for the try

○E) The braces for the catch

○F) None of the above; the code does not compile as is.

19. **Which of the following fill in the blank to print out " Java"?(Choose all that apply)**

```java
String letters = " Java ";
String answer = _____
System.out.println(answer);
```

○A) letters.trim();

○B) letters.substring(1).trim();

○C) letters.trim().substring(1);
```

○D) `letters.charAt(0) + letters.substring(1).toLowerCase();`

○E) `letters.replace(" ", "");`

○F) `letters.replace(" J", "");`

20. **Which of the following compile? (Choose all that apply)**

○A) `String[] grades; grades = {"B", "C", "F", "A", "D"};`

○B) `String[] grades; grades =new String[] {"B", "C", "F", "A", "D"};`

○C) `String[]  grades = {"B", "C", "F", "A", "D"};`

○D) `String grades[] = {"B", "C", "F", "A", "D"};`

○E) `String grades[]; grades =new []String {"B", "C", "F", "A", "D"};`

○F) `String[]  grades[] = {"B", "C", "F", "A", "D"};`

21. **What is the result of the following?**

```
String[] lizards = {"iguana", "gecko"};
List<String>list = Arrays.asList(lizards);
list.set(1,  "");
System.out.println(list);
```

○A) `[iguana]`

○B) `[iguana, ]`

○C) `[iguana, gecko]`

○D) An exception is thrown on line 8.

○E) An exception is thrown on line 9.

○F) The code does not compile.

22. **What is the result of the following code?(Choose all that apply)**

```
publicclass Cardinal {
staticintnumber;
Cardinal() { number++; }
      publicstaticvoid main(String[] args) {
      Cardinal c1 = new Cardinal();
      if (c1 == null) {
            Cardinal c2 = new Cardinal();
      }else {
            Cardinal c2 = new Cardinal();
```

```
        }
        Cardinal c2 = new Cardinal();
        System.out.println(c1.number);
    }
}
```

○A) 0

○B) 1

○C) 2

○D) 3

○E) 4

○F) The code does not compile.

23. **Which of the following are included as a result of this code?**

```
String s = "Hello";
String t = new String(s);
if("Hello".equal(s)) System.out.println("one");
if(t == s) System.out.println("two");
if(t.equal(s)) System.out.println("three");
if("Hello" == s) System.out.println("four");
if("Hello" == t) System.out.println("five");
```

○A) one

○B) two

○C) three

○D) four

○E) five

○F) The code does not compile.

24. **What is the output of the following program?**

```
publicclass Pet {
        publicvoid eat() throws NullPointerException {
                thrownew NullPointerexception();
        }
    publicstaticvoid main(String[] args) {
        Pet pet = new Pet();
        pet.eat();
        System.out.println("Pet just ate");
    } }
```

○A) Pet just ate

○B) Line 2 generates a compiler error.

○C) Line 3 generates a compiler error.

○D) Line 7 generates a compiler error.

○E) A NullPointerException is thrown at runtime.

25. **What is the result of the following code?**

```
1:public class Counts {
2:     private booleanb;
3:     public static void main(String[] args) {
4:             Counts c = new Counts();
5:             int one, two = 0;
6:             if(c.b) {
7:                     System.out.println(one);
8:     } } }
```

○A) Compiler error on line 5

○B) Compiler error on line 6

○C) Compiler error on line 7

○D) Compiles successfully and prints 0

○E) Compiles successfully and prints null

○F) Compiles successfully with no output

26. The kinds of Polimorphizm.

27. What memory is stored in static variables?

28. What is garbage collector.

29. What gets printed when running the following?(Choose all that apply)

```java
public class A {
private String value;
public void go() {
        try {
                System.out.print(value.toString());
                System.out.print("1");
        }catch (NullPointerException e) {
                System.out.print("2");
                System.exit(0);
        }finally {
                System.out.print("3");
        }
        System.out.print("4");
}
publicstaticvoid main(String[] args) {
        new A().go();
}
}
```

A) 1

B) 2

C) 3

D) 4

E) Stack trace of a NullPointerException

30. What is the result of following code?

```java
publicclass A {
private int i = 6;
private int j = i;
public void A() {
        i = 5;
}
public static void main(String[] args) {
        A a = new A();
        System.out.println(a.i + a.j);
}
}
```

○A) 55

○B) 56

○C) 66

○D) 10

○E) 11

○F) 12

○G) The code does not compile.

31. What is the output of the following snippet?

```java
Integer x = null;
int y = 0;
if( x == y){
        System.out.print("1");
}else {
        System.out.print("2");
} finally {
        System.out.print("3");
}
```

○A) 13

○B) 23

○C) 2 and the stack trace for a NullPointerException

○D) 23 and the stack trace for a NullPointerException

○E) 234

○F) The code does not compile.

32. Which is the result of the following?

```java
List<String>numbers = new ArrayList<>();
 numbers.add("4"); numbers.add("7");
 numbers.set(1, "5");
 numbers.add("8");
 numbers.remove(0);
 for (String number : numbers) System.out.print(number);
```

○A) 48

○B) 58

○C) 478

○D) 578

○E) 78

○F) An exception is thrown.

○G) The code does not compile.

33. **What is the result of the following code?**

```
1:public class BytePrinter {
2:    public void print(byte b) {
3:        System.out.print("byte");
4:    }
5:    public void print(Byte b) {
6:        System.out.print("Byte");
7:    }
8:    public void print(int i) {
9:        System.out.print("int");
10:   }
11:   public static void main(String[] args) {
12:       BytePrinter printer = new BytePrinter();
13:       short x = 10;
14:       byte y = 12;
15:       printer.print(x);
16:       printer.print(y);
17:   }
18: }
```

○A) byteint

○B) intbyte

○C) Compiler error on line 5

○D) Compiler error on line 15

○E) Compiler error on line 16

34. What is the result of compiling this class?

```
1:public class Frog {
2:      public int Frog() { return 0; }
3:      private List<Integer>legs;
4:      public Frog() {
5:              legs = new ArrayList<Integer>();
6:              for( inti = 0; i<4; i++) {
7:                      legs.add(i);
8:              } } }
```

A) The code compiles successfully.

B) The first compiler error occurs on line 2.

C) The first compiler error occurs on line 3.

D) The first compiler error occurs on line 4.

E) The first compiler error occurs on line 5.

F) The first compiler error occurs on line 6.

G) The first compiler error occurs on line 7.