Please read the question carefully and choose the correct option!

- 1. The following are keywords found in Java, except..
 - a. Goto
 - b. Break
 - c. If
 - d. String
- 2. A method that can be executed automatically when an object of a class is created is known as..
 - a. Constructor
 - b. Initializer
 - c. Garbage Collector
 - d. Inheritance
- 3. The term to protect data from attempts to modify, destroy and duplicate data by unauthorized parties is..
 - a. Inheritance
 - b. Polymorphisme
 - c. Constructor
 - d. Encapsulation
- 4. The java syntax for compiling program files is
 - a. Java
 - b. Javac
 - c. Javaclass
 - d. Javax
- 5. Class B inherits from Class A, what cannot be said:
 - a. B is a sub-class of A
 - b. A is a super-class of B
 - c. B has access to private members of A
 - d. B has access to protected members of A
- 6. The following are primitive data types:
 - a. Boolean
 - b. Character
 - c. Byte
 - d. Double

All of this option are primitive data types

- 7. The keyword used to make the value fixed and immutable is...
 - a. Protected
 - b. Private
 - c. Public
 - <mark>d. Final</mark>

| 8. | a. U b. t <mark>c. t</mark> | e method used to convert all letters in a string to uppercase / capital is UpperCase() oUperCase() oUpperCase() oUpperCase() sUpperCase() | | | | | | | |
|-----|---|---|--|--|--|--|--|--|--|
| 9. | a. <mark>b.</mark> c. (| ect the valid statement. char[] ch = new char(5) char[] ch = new char[5] char[] ch = new char() char[] ch = new char[] | | | | | | | |
| 10. | a. b. | npareTo() returns true false an int value none | | | | | | | |
| 11. | 1. What is the return value if a=7 and b=3? static int function(int a, int b) { int c = a++ - b; int d = a + ++b; return (d % c); | | | | | | | | |
| | } | | | | | | | | |
| | <mark>a.</mark> | 0 | | | | | | | |
| | b. | 1 | | | | | | | |
| | c. | 2 | | | | | | | |
| | d. | 3 | | | | | | | |
| 12. | What is the result value at the end of execution? int inp[] = new int[] {5, 4, 6, 7, 3, 6}; int result = 0; try { for (int i = 1; i <= inp.length; i++) { result += inp[i]; } | | | | | | | | |
| | | } catch (Exception exception) { } | | | | | | | |
| | a. | 25 | | | | | | | |
| | b. | 26 | | | | | | | |
| | c. Runtime error | | | | | | | | |
| | d. | Compile error | | | | | | | |
| | | | | | | | | | |

```
13. There is something wrong with the code. How to fix it?
   public class Test6 { public String var = "
            world"; public static void main(String
            args[]) {
                    System.out.println("Hello" + var);
            }
   }
   a. System.out.println("Hello" + Test6.var);
   b. System.out.println("Hello" + this.var);
   c. public static String var = " world";
   d. public final String var = " world";
14. What is the output of the function if n=6?
   static int myFunc(int n) {
            if (n == 0) { return
            0;
            } else if (n == 1) {
                    return 1;
            } else if (n > 1) {
                    return myFunc(n-1) + myFunc(n-2);
            } else { return -1;
            }
    }
   a. 5
   b. 6
   c. 8
   d. -1
            What is the value of d? String a =
    "KLMN"; String b = " AB CDEFGHIJ ";
   String c = b.trim().substring(3, 7);
   String d = c.concat(a);
   a. CDEKLMN
   b. DEFGHIJKLMN
   c. CDEFKLMN
   d. DEFGKLMN
```

Please create a guery to answer questions number 16 – 19 based on the table below:

| nik | nama | alamat | kota | provinsi | pulau | total_pembelian_2017 | total_pembelian_2018 | point | tgl_regis |
|---------|-----------------|----------------------|-------------------|---------------------|------------|----------------------|----------------------|-------|-----------|
| 3276001 | Ahmad | Jl. Telaga No 3 | Bandar Lampung | Lampung | Sumatra | 984.000,00 | 430.000,00 | 7070 | 14-Nov-17 |
| 3276002 | Saiful Ahmad | Jl. Cendrawasih | Batam | Kepulauan Riau | Batam | 265.000,00 | 684.000,00 | 4745 | 12-Apr-17 |
| 3276003 | Lina | Jl. Mawar | Makassar | Sulawesi Selatan | Sulawesi | 902.000,00 | 883.000,00 | 8925 | 22-Sep-17 |
| 3276004 | Erni | Jl. Cut Nyak Dien | Pontianak | Kalimantan Barat | Kalimantan | 384.000,00 | 377.000,00 | 3805 | 30-Oct-16 |
| 3276005 | Anto | Jl. Kamboja | Jakarta Barat | DKI Jakarta | Jawa | 561.000,00 | 293.000,00 | 4270 | 20-Apr-17 |
| 3276007 | Maya | Jl. Anoa | Batam | Kepulauan Riau | Batam | 679.000,00 | 746.000,00 | 7125 | 9-Aug-16 |
| 3276008 | Hadi | Jl. Hiu | Jakarta Barat | DKI Jakarta | Jawa | 239.000,00 | 987.000,00 | 6130 | 8-Apr-16 |

16. Sort customer data based on the highest point to the lowest point

SELECT * FROM customers ORDER BY point DESC;

17. Show all data with customer names containing the word Ahmad

SELECT * FROM customers WHERE nama LIKE '%Ahmad%';

18. Show for the NIK and Name of the Customer who made the 3rd most total purchases in the last 2 years

19. Show total customer purchases outside Java throughout 2017

```
SELECT SUM(total_pembelian_2017) AS total_purchase_outside_jawa
FROM customers
WHERE pulau <> 'Jawa';
```

20. Show all data with NIK, NAMA, ALAMAT, and TOTAL_MARGIN. The rule for TOTAL_MARGIN is if the difference between total_pembelian_2017 and total_pembelian_2018 is a surplus, then display 'Profit' otherwise, display 'Defisit'

21. Show all data with NIK, NAMA, and ALAMAT_LENGKAP. The rule for ALAMAT_LENGKAP is as follows: 'alamat, Kota, Provinsi - Pulau'. Also, sort by newest TGL_REGIS

```
SELECT NIK, NAMA,

CONCAT(alamat, ', ', kota, ', ', profinsi, ' - ',
pulau) AS ALAMAT_LENGKAP

FROM customers

ORDER BY tgl_regist DESC;
```