



GIET UNIVERSITY, GUNUPUR - 765022
B. Tech (Third Semester) Examinations, December - 2023
Object Oriented Programming through Java
21BCSPC23002 / 22BCSPC23002
(CSE, CSE(AI ML), CSE(DS))

Time: 3 hrs

Maximum: 70 Marks

(The figures in the right hand margin indicate marks)

PART - A

(2 x 5 = 10 Marks)

Q.1. Answer **ALL** questions

CO #	Blooms Level
CO1	K1

- a. Predict the output :
class test

```
{
    public static void main(String a[])
    {
        int i=1,j=10;
        do
        {
            if (i++ > --j) { continue;}
        } while(i<5);
        System.out.println(i+ "GIET" +j);
    }
}
```

- b. Why is Java called a platform-independent language?
 c. Write a Java program to read a sentence and display it by inserting * in place of space.
 d. How many String objects will be created?
 String S1 = new String("Java");
 String S2 = "Program";
 S1 = S1 + S2;
 e. Describe the methods (1) setBackground() (2) setForeground() with their syntax.

CO 1	K1
CO3	K1
CO2	K1
CO4	K1

PART - B

(15 x 4 = 60 Marks)

Answer **ALL** questions

Marks	CO #	Blooms Level
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2. a. Describe JVM and explain and draw the Architecture of JVM.
 b. Write a program to receive a color code from the user (an Alphabet). The program should then print the color name, based on the color code given. The following are the color codes and their corresponding color names.
 R->Red, B->Blue, G->Green, O->Orange, Y->Yellow, W->White. If color code provided by the user is not valid then print "Invalid Code".

8	CO1	K1
7	CO1	K1

(OR)

- c. Explain the basic characteristics of object-oriented programming. Write a program to read a number using a command line argument and check whether it is even or odd.

8	CO1
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