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GIET UNIVERSITY, GUNUPUR – 765022

B. Tech (Third Semester - Regular) Examinations, December – 2022

21BCSPC23002 / 21BCMPC23002 / 21BCDPC23002

Object Oriented Programming Through JAVA

[CSE,CSE(AIML), CSE(DS)]

Time: 3 hrs

Maximum: 70 Marks

Answer ALL questions

(The figures in the right hand margin indicate marks)

PART – A

(2 x 5 = 10 Marks)

Q.1. Answer **ALL** questions

- | | CO # | Blooms Level |
|---|------|--------------|
| a. Why java is called platform independent language? | CO1 | K1 |
| b. Differentiate between a static and non-static data member in java? | CO2 | K3 |
| c. What is the output of the following code? | CO3 | K1 |
| <pre>public class test{ public static void main(String[] arr){ Integer num1 = 400; Integer num2 = 400; if(num1 == num2){ System.out.println(0); } else{ System.out.println(1); } } }</pre> | | |
| d. Explain constructor chaining with an example. | CO2 | K2 |
| e. Write a short note on Daemon Thread. | CO3 | K1 |

PART – B

(15 x 4 = 60 Marks)

Answer ALL questions

- | | Marks | CO # | Blooms Level |
|---|-------|------|--------------|
| 2. a. Explain all the characteristics of Java. Write a program to calculate the factorial of a number. | 8 | CO1 | K2 |
| b. Write a java program to read a number and test whether it is Armstrong or not. | 7 | CO1 | K1 |
| (OR) | | | |
| c. Differentiate between for loop and for each loop . Write a program to illustrate an array of objects. | 8 | CO1 | K2 |
| d. Write a java program to read two matrices of m x n and p x q order, multiply them and display the resultant matrix. (Read values of m,n,p,q by using Scanner class) | 7 | CO1 | K2 |
| 3.a. Explain the following methods used in the StringBuffer class with examples. | 8 | CO2 | K2 |
| 1. append() 2. insert() 3. replace() 4. delete() | | | |
| b. Why wrapper classes are required? Explain autoboxing and unboxing with suitable examples of each. | 7 | CO2 | K1 |

(OR)

c.	Explain the following with an example: i) this ii) super iii) final	8	CO2	K2
d.	What is the difference between Error and exception? Write a java program to illustrate the usage of multiple catch handlers.	7	CO2	K1
4.a.	Explain the following with an example of each: i. local inner class ii. anonymous inner class	8	CO3	K2
b.	Explain the usage of Serialization in Java with an example.	7	CO3	K2
(OR)				
c.	What do you mean by deadlock? Explain with an example.	10	CO3	K1
d.	What is user defined Exception in Java? WAP to accept student age and check whether he is eligible to vote or not? Show an appropriate message when the age is not eligible.	5	CO3	K1
5.a.	Write a Java program to implement Mouse Motion Adapter?	8	CO4	K2
b.	How applets are different from applications? Explain the life cycle of an applet.	7	CO4	K2
(OR)				
c.	Write a Java program to count total number of words and characters entered in the textarea.	8	CO4	K2
d.	Write a program to draw a smiley using the applet.	7	CO4	K2

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