

# IMCA 3<sup>rd</sup> Semester Examination-2020

## Subject-Java

### Paper-3.2

**Full Mark-70**

**Time-2 hours**

Answer all Questions.

1. What is Command Line Argument? Using Command Line Argument find GCD of two numbers. Which features of C++ are not present in Java. [14]

OR

Explain the architecture of JVM. How BufferedReader class is used for console input operation? Using switch control structure perform arithmetic operations. [14]

2. What is difference between aggregation and inheritance? How does Java support multiple inheritance, explain with suitable example? [14]

OR

Write short note abstract class. Create a package which contains a class AreaCalculate. This class contains methods Circle\_Area(), Rectangle\_Area(), Square\_Area(). Write a program to implement this. [14]

3. a. What is jagged array? Write a program to print upper triangle of a matrix. [7]  
b. Write a program to write set of lines in a file. Count and Print number of vowels present in the file. [7]

OR

a. What are the ways to create string in Java? Write a program to covert uppercase characters of a string to lowercase and vice versa. [7]

b. Write a program to find the largest number in an array using function. [7]

4. a. Write the difference between throw and throws. Can exception be resolved in catch block? Justify your answer with a program. [7]

b. What is multithreading and what are its advantages? Write a program to name a thread and print its ID. [7]

OR

Explain the syntax of `Class.forName()`. Write a program to insert a new Employee record containing fields Ename, EID, Salary, Address to the EMPLOYEE database. [14]

5. Discuss different types of file Streams. Give example of Byte Stream classes used for file I/O operation. [14]

OR

What is the use of driver? Explain about different types of drivers used in JDBC. [14]

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