# **CHRIST UNIVERSITY, BENGALURU - 560029**

# End Semester Examination March - 2017 Bachelor of Science CME/CMS IV SEMESTER

Code: CSC431 Max.Marks: 100
Subject: OBJECT ORIENTED PROGRAMMING USING JAVA Duration: 3Hrs

SECTION A

Answer ALL 10X2=20

1 List any four object oriented programming languages other than JAVA.

- **2** Mention the different types of comments in JAVA.
- **3** What is the use of a constructor?
- **4** What is the difference between String and StringBuffer class?
- **5** Define interface.
- **6** What are command line arguments?
- 7 Explain the keyword finally.
- **8** What are daemon threads?
- **9** What are streams?
- 10 Write the purpose of isDirectory() method.

## **SECTION B**

## **Answer any EIGHT**

8X5=40

- 11 Give a short note on type conversion with suitable examples.
- 12 Elaborate the different categories of operators used in JAVA?
- 13 Can a non static data member be used in s static method? Justify you answer.
- **14** Explain the diffrence between compareTo and equals mehtods of String class with suitable example.
- 15 Explain the order of calling constructor in multilevel inheritance.
- **16** Write a JAVA program to find average of values entered in an array.
- 17 Briefly explain about user-defined exceptions.
- 18 Explain the importance of "Runnable" interface.
- 19 Write a JAVA program that reads character from console until the user types 'q'.
- 20 How to perform binary search using Arrays class? Explain with an example.

#### **SECTION C**

### **Answer any TWO**

2X10 = 20

- 21 Explain features of object oriented programming in detail with their advantages.
- 22 Briefly Explain
  - a) this keyword with an example.
  - b) Garbage collection in JAVA.
- 23 Explain following operations on a file
  - a) Reading a file.
  - b) Writing into a file.
  - c) Counting number of lines in a file.

#### **SECTION D**

## Answer any TWO

2X10 = 20

- 24 Create a class called as Point with coordinates as data members. Write a JAVA program which calculates distance between two points using distance formula.
- 25 Write a JAVA program which takes input as digits from command line and displays name of the digit. For example if the entered digit is 3 the program should output THREE.
- **26** Write a program to demonstrate user defined exception.