# **CHRIST UNIVERSITY, BENGALURU - 560029**

# End Semester Examination March - 2016 Bachelor of Science - CMS / CME - IV SEMESTER

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

SECTION A

Answer ALL

10X2=20

- 1 Explain the difference between C++ and JAVA.
- 2 JAVA is a pure object oriented language. Comment.
- **3** What is the use of this keyword?
- 4 How to change case of characters in a string?
- 5 Why multiple inheritance is not available in JAVA?
- **6** What are the contents of args[] in main method?
- 7 Give the general form of exception handling block.
- **8** Why threads are called light weight?
- **9** What are streams?
- 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 Explain the use of the statements:
  - a) break b) continue c) return
- 13 Demonstrate objects and classes with an example program.
- 14 Write a JAVA program to demontstrate substring operation using String class method.
- 15 Explain the significance of final in inheritance with an example.
- 16 How to perform binary search using Arrays class? Explain with an example.
- 17 Differentiate between throw and throws.
- 18 Explain phases in life cycle of a thread.
- 19 Write a JAVA program that reads character from console until the user types 'q'.
- **20** Write a note on Arrays class.

### **SECTION C**

Answer any TWO 2X10=20

- 21 Write short notes on a)Scope of variables in JAVA b)Bitwise operators.
- 22 Briefly Explain
  - a) this keyword with an example.
  - b) Garbage collection in JAVA.
- Write short notes on
  - a) Reader class.
  - b) Writer class.

#### **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 to demonstrate method overriding.
- 26 Write a JAVA program which demonstartes divide by zero and ArrayIndexOutofBounds exception.