CHRIST (DEEMED TO BE UNIVERSITY), BENGALURU - 560029

End Semester Examination March - 2018 Bachelor of Science IV SEMESTER

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

SECTION A

Answer ALL 10X2=20

- 1 Inspect the properties, classes and objects in Java.
- 2 Identify any four primitive data types in JAVA.
- **3** Identify the general form of new operator.
- 4 Identify the method in String class that returns a substring for given begin index.
- **5** Examine the use of extends keyword in Java.
- **6** How to create an array of objects?
- 7 What is the difference between exception and error?
- 8 Discuss on naming threads as light weighted.
- 9 Explain Byte Streams.
- **10** What is the purpose of flush() method?

SECTION B

Answer any EIGHT

8X5=40

- 11 What is inheritance in object oriented programming? Explain with suitable example.
- 12 Explain the Java programming structure.
- 13 Examine the usage of "Public" and "Static" declaration in the Main methods of Java program.
- **14** Analyze the usage of substring operation using String class method with a Java program.
- 15 Explain the purpose of abstract class and abstract method.
- **16** Construct a Java program to find largest of three numbers using command line arguments.
- 17 Examine the types of exceptions in Java.
- 18 Identify the function of deadlocks in threads.
- 19 Explain reading from and writing into files.
- 20 Explain with an example to perform binary search using Arrays class.

SECTION C

Answer any TWO 2X10=20

- 21 Explain the following:a) JAVA environment b) Applications of OOPs.
- **22** Explain the following Concepts
 - a) Multidimensional arrays in Java.
 - b) Access control in Java.
- 23 Construct a Java program to copy the file content from one file to another file.

SECTION D

Answer any TWO 2X10 = 20

- **24** Construct a class called as Point with coordinates as data members. Write a Java program to calculate distance between two points using distance formula.
- 25 Show the structure of a Java program to find the area of Square and Rectangle by deriving them from a class named Shape.
- **26** Construct a Java program for divide by zero and ArrayIndexOutofBounds exception.