KNT/KW/16/5160

Bachelor of Science (B.Sc.) Semester–IV (C.B.S.) Examination

COMPUTER SCIENCE (Java Programming)

Paper–I

Time : Three Hours]   [Maximum Marks : 50

N.B. :— (1) **All** questions are compulsory and carry equal marks.

(2) Draw neat and labelled diagrams wherever necessary.

EITHER

1. (a) Explain various data types in Java. Give example of each.   5

   (b) Explain data type conversion and casting features of Java with example.   5

   OR

   (c) Explain various types of operators used in Java Programming.   5

   (d) Explain order of precedence of operators in Java.   5

   EITHER

2. (a) Write a program in Java to demonstrate constructor overloading.   5

   (b) Write a program in Java to arrange the elements of array in ascending order.   5

   OR

   (c) Write a program in Java to find the reverse of given number.   5

   (d) Explain the different types of loops in Java with suitable example.   5

   EITHER

3. (a) Explain applet life cycle in detail.   5

   (b) What is exception ? Explain how a user handles exception in Java with suitable example.   5

   OR

   (c) What is thread ? Explain life cycle of a thread in detail.   5

   (d) Differentiate between applet and applications. Write an applet in Java to display the message "Hello World".   5

EITHER

4. (a) Explain event handling in Java. 5

    (b) What is stream ? How is the concept of streams used in Java ? 5

    OR

    (c) Write a program in Java using frame object, displaying menu 'file' with menu items 'new', 'open', 'close' and 'exit'. 5

    (d) What is FONT class ? Explain any two functions of it with syntax. 5

5. (a) What are Java token ? Explain. 2½

    (b) Explain single inheritance in Java with a suitable example. 2½

    (c) Explain the ADI package. 2½

    (d) Explain AWT package. 2½

NVM—5439