NRT/KS/19/2127

Bachelor of Science (B.Sc.) Semester—IV Examination

COMPUTER SCIENCE (JAVA PROGRAMMING)

Optional Paper—I

Time : Three Hours]   [Maximum Marks : 50

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

(2) Draw neat and labelled diagram wherever necessary.

EITHER

1. (A) What is JVM ? Explain different features of Java Language.   5

   (B) Write a Java program to display the total and average of three numbers.   5

   OR

   (C) Explain different operators supported by Java programming.   5

   (D) Explain Input statement for entering data through keyboard.   5

   EITHER

2. (A) Give the difference between method overloading and method overriding.   5

   (B) Write a Java program to demonstrate single inheritance.   5

   OR

   (C) What is interface in Java ? Give example to implementing interface.   5

   (D) Write a Java program to demonstrate the static method.   5

   EITHER

3. (A) What is thread ? Explain the life cycle of thread.   5

   (B) Explain exception handling with suitable example.   5

   OR

   (C) What is API package in Java ? Explain how a class is added to package.   5

   (D) Write a Java program to create an applet that receives three numeric value as input from user and display the largest of three.   5

   EITHER

4. (A) Explain input and output stream in Java.   5

   (B) Write a Java program to copy characters from one file to another file.   5

   OR

   (C) What is event driven programming ? Explain with example.   5

   (D) Explain graphics object. Write a program that create Java application for drawing rectangle on frame.   5

5. (A) Difference between applets and application.   2½

   (B) Short note on constructor overloading.   2½

   (C) Draw life cycle of applet.   2½

   (D) What is layout manager ? Give its type.   2½

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