NTK/KW/15 – 5875

Fourth Semester Bachelor of Science (B. Sc.) Examination

COMPUTER SCIENCE

Java Programming

Paper – I

Time : Three Hours]　　　　　　　　[Max. Marks : 50

　　N. B. : All questions are compulsory and carry equal marks.

EITHER

1. (A) Explain various features of Java language. 　　5

　　(B) What is operators ? Explain unary and Comparison operator. 　　5

OR

　　(C) Define variables. Explain different rules for defining variable. 　　5

　　(D) What is Type Casting ? Explain order of precedence of operators. 　　5

EITHER

2. (A) What is class ? Explain different rules for assigning class and subclass to its reference. Explain class initialization. 　　5

　　(B) Write a Java program, which demonstrate the Static Methods. 　　5

OR

(C) Define the terms :—

    (i)   Default constructor.

    (ii) Copy constructor.   5

(D) Explain if–then–else and switch statement with suitable example.   5

EITHER

3. (A) What is Java API Package ? Explain how packages can be accessed.   5

    (B) Write a Java program which demonstrate passing of parameter to applet.   5

OR

    (C) What is Thread ? Explain the life cycle of thread.

                                  5

    (D) Explain different errors which may occur while handling exception in Java.   5

EITHER

4. (A) What is event driven programming ? Explain it with suitable example.   5

    (B) Explain input and output stream in Java.   5

OR

    (C) Write a Java program to create a popup menus.

                                  5

(D) Explain with suitable example following containers :—

   (i)   Frame

   (ii) Panel.   5

5. Attempt any **ten** :—

   (a) What is Applet ?

   (b) What is scope of variable ?

   (c) Define scope resolution operator.

   (d) What is Java Class ?

   (e) What is interface in Java ?

   (f) Write a statement to call a method.

   (g) What is API ?

   (h) Define Applet tag in Java.

   (i) What is priority of thread ?

   (j) What is AWT ?

   (k) Define abstract stream class.

   (l) State types of images.   1 x 10