Bachelor of Science (B.Sc. I.T.) Semester—IV (C.B.S.) Examination

JAVA PROGRAMMING

Paper—II

Time : Three Hours]   [Maximum Marks : 50

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

(2) Draw neat and labelled diagrams whenever necessary.

EITHER

1. (a) What are operators ? Explain operators in Java.   5

(b) What is Java ? Explain the features of Java programming.   5

OR

(c) Explain different primitive data types in Java.   5

(d) Write a program in Java to accept two numbers through keyboard and swap them.   5

EITHER

2. (a) Explain the following :

(1) Access specifier in Java

(2) Java class library.   5

(b) Write a program in Java which uses multiple inheritance by interface method.   5

OR

(c) Explain the role of inheritance in Java. Also explain type of inheritance in Java.   5

(d) Explain constructor overloading in Java with suitable example.   5

EITHER

3. (a) What are packages in Java ? Explain user defined packages with example.   5

(b) Explain applet life cycle in Java.   5

OR

(c) What is a thread ? Explain multithreading with an example.   5

(d) What is exception in Java ? List the hierarchy of exception classes.   5

EITHER

4. (a) What are graphics methods in Java ? Write a program in Java to draw an oval. 5

(b) Write a program in Java for class container which includes a feature of frame and panel. 5

OR

(c) Write notes on :

    (i) Font object

    (ii) Layout manager. 5

(d) Explain the following :

    (i) AWT Toolkit

    (ii) Frames. 5

5. Attempt **ALL** :

(a) Explain scope of variable in Java. 2½

(b) Give an example for interface. 2½

(c) Write a syntax for exception. 2½

(d) Write a program that create window application for drawing circle on a frame. 2½