

Bachelor of Science (B.Sc.) (I.T.) Semester-IV 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 wherever necessary.

EITHER

1. (A) Explain the features of Java Programming language. 5
- (B) Write a program in Java to convert the Fahrenheit into Centigrade. $C = (F - 32)/1.8$ 5

OR

- (C) Explain primitive data types in Java. 5
- (D) Explain following operators in Java with suitable example :
 - (i) Logical operators
 - (ii) Conditional operators. 5

EITHER

2. (A) Explain static and final keywords in Java with suitable example. 5
- (B) Write a program in Java for constructor overloading. 5

OR

- (C) What is inheritance ? Explain single inheritance with suitable example. 5
- (D) Explain one dimensional array in Java. Give its syntax with example. 5

EITHER

3. (A) Explain life cycle of an Applet with well labelled diagram. 5
- (B) What is package ? How is the user defined package created in Java ? 5

OR

- (C) What is multithreading in Java ? Give suitable program. 5
- (D) Explain try, catch and finally blocks giving suitable program. 5

EITHER

4. (A) What is event driven programming ? Give its advantages. 5
- (B) Write an applet program for addition of two numbers using AWT controls. 5

OR

- (C) Explain layout with its types. 5
- (D) What is container ? Explain panel using proper syntax and example. 5

5. (A) Explain input and output streams. 2½
- (B) Explain method overloading with suitable example. 2½
- (C) Draw a well labelled diagram for life cycle of a thread and list its components. 2½
- (D) What is AWT tool kit ? List its components. 2½