

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 diagram wherever necessary.

EITHER

1. (a) What data types are used in Java ? Explain type casting with example. 5
 (b) Explain the use of break and continue statement as goto statement in Java. 5

OR

- (c) Explain the bitwise operators in Java. 5
 (d) Explain various JDK tools in Java. 5

EITHER

2. (a) Explain various access specifiers in Java. 5
 (b) Write a program in Java to search an element in two dimensional array. 5

OR

- (c) Explain implementing and extending interface in Java. 5
 (d) Write a program in Java to accept a number from the keyboard and find the factorial of a number. 5

EITHER

3. (a) Define packages. Explain various API packages in Java. 5
 (b) Explain the thread life cycle using well labelled diagram. 5

OR

- (c) Write an applet to display the message "Hello Java". 5
 (d) Explain the exception handling model in Java. 5

EITHER

4. (a) Write a program in Java to draw an oval. 5
 (b) Explain the various containers in Java. 5

OR

- (c) Explain layout manager in Java. 5
 (d) Explain the input-stream class in Java. 5

5. Attempt **all** :

- (a) Discuss in brief Java applications and Applets. 2½
 (b) Define interface. Write its syntax. 2½
 (c) How will you block a thread using suspend method ? 2½
 (d) Write a short note on component class. 2½