

Bachelor of Science (B.Sc.) Part—II (Semester—IV)
(C.B.S.) Examination
COMPUTER SCIENCE
Paper—I
(Java Programming)

Time—Three Hours] [Maximum Marks—50

Note :— (1) All questions are compulsory and carry equal marks.
(2) Draw neat and labelled diagram wherever necessary.

EITHER

1. (a) Explain the features of Java. 5
- (b) What is JVM ? Differentiate between compiler, interpreter and JVM. 5

OR

- (c) Explain the different data types in Java. 5
- (d) Write a code in Java to find simple interest where the variables are taken as input through the keyboard. 5

EITHER

2. (a) What are access specifiers ? Give a comparative study between these access specifiers. 5
(b) What is constructor overloading ? Write an example of constructor overloading in Java. 5

OR

(c) Explain the use of break and continue as goto statement in Java. 5
(d) What is an interface ? Give syntax and an example. 5

EITHER

3. (a) How is multiple threading achieved in Java ? Explain with example. 5
(b) What is a package ? How will you create user defined package in Java ? 5

OR

(c) Explain the applet life cycle in Java. 5
(d) What are exceptions ? Explain the syntax of exception handling code. Explain with example. 5

EITHER

4. (a) Write a Java program to draw :
(i) rectangle
(ii) oval. 5
(b) Explain, how will you create a Textfield, label and button in Java. 5

OR

(c) Write a program in Java to copy characters from one file to another file. 5
(d) Explain the different layout managers in Java. 5

5. Attempt **ALL** the questions :—

(a) Differentiate between application and applets in Java. 2½
(b) What are the different types of inheritances available in Java ? 2½
(c) Explain any two API packages in Java. 2½
(d) What is an event ? How will you handle an AWT event ? Give a suitable example. 2½