

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

JAVA PROGRAMMING

Paper—II

Time : Three Hours] [Maximum Marks : 50

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

(2) Draw neat and labelled diagrams wherever necessary.

EITHER

1. (a) What is Java ? Give its features in detail. 5
- (b) Write a program in Java for addition of two numbers. Accept the two numbers from keyboard. 5

OR

- (c) Explain data types in Java. 5
- (d) Describe input and output operator streams with an example. 5

EITHER

2. (a) Write a Java program code which uses parameterized constructor. 5
(b) What are Access specifier and modifiers ? 5

OR

- (c) Explain method overloading with an example. 5
(d) Write a program in Java which shows multiple inheritance using interface. 5

EITHER

3. (a) What are Java API packages ? Give its advantages. 5
(b) Explain applet life cycle in Java. 5

OR

- (c) What is multithreading ? Explain with an example. 5
(d) Explain priority of thread and synchronization. 5

EITHER

4. (a) What is event driven programming ? Give its advantages. 5
(b) Write notes on the following :
(i) AWT Tool Kit
(ii) Frames. 5

OR

- (c) Explain layouts using Window listener interface. 5
(d) Write a program in Java for class container which includes a feature of frame and panel. 5
5. (a) Explain type casting in Java with an example. 2½
(b) Give an example for interface. 2½
(c) Write a syntax for exception. 2½
(d) Explain Flow manager and Grid manager. 2½