

Bachelor of Computer Application (B.C.A.) Semester—VI Examination**PROGRAMMING IN JAVA****Paper—2**

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 are the features of Java ? 5
- (B) List the operators supported by Java. Explain Bitwise operators with example. 5

OR

- (C) Write short notes on :
 - (i) JDK
 - (ii) JVM. 5
- (D) Explain with example type casting and conversion in Java. 5

EITHER

2. (A) Write a program in Java to accept two numbers through the keyboard and Swap them. 5
- (B) What is method overriding ? Explain with an example. 5

OR

- (C) What do you mean by access specifier ? Explain the scope of each access specifier. 5
- (D) How is multiple inheritance achieved in Java ? Explain with an example. 5

EITHER

3. (A) What do you mean by package ? How can we create our own package ? 5
- (B) Write an applet in Java to display the message “Hello World”. 5

OR

- (C) Explain the concept of multithreading. How threads can be synchronized ? 5
- (D) What is exception ? How can exceptions be handled in Java ? 5

EITHER

4. (A) What is an event ? How can event be handled ? 5
- (B) Write a program in Java to draw and fill a rectangle using Graphics Class. 5

OR

- (C) Explain layout manager in detail. Give its advantages. 5
- (D) Write short notes on :
 - (i) Button
 - (ii) TextField. 5

5. Attempt **ALL** :

- (A) Differentiate final and abstract class in Java. 2½
- (B) How is array created in Java ? 2½
- (C) Write a short note on API packages. 2½
- (D) List properties of an image. 2½