

B.C.A. (Part-III) Semester-V Examination
CORE JAVA
Paper – 5 ST 1

Time : Three Hours]

[Maximum Marks : 60

- N.B. :-** (1) **ALL** questions are compulsory.
(2) All questions carry equal marks.

1. (a) Explain :
 (i) JVM
 (ii) JDK
 (iii) Platform Independent. 6
(b) Explain the concept of command-line arguments with suitable program example. 6

OR

2. (a) Explain different features of Java programming language. 6
(b) Write a Java program to print the multiplication table for first 10 natural numbers using nested for loop. 6
3. (a) Explain class and object. How they can be created ? Explain with proper example. 6
(b) What is Constructor ? Write a Java program to calculate area of rectangle using constructor. 6

OR

4. (a) Explain method overloading with suitable program example. 6
(b) What is Inheritance ? Explain multiple inheritance of classes with program example. 6
5. (a) What is Package ? Write a procedure to create a package. 6
(b) What is Interface ? How it is different from Class ? Explain. 6

OR

6. (a) Explain interface definition and its implementation with example. 6
- (b) How interface is used in multiple inheritance ? Explain with suitable program example. 6
7. (a) What is Exception ? Explain any five built-in exceptions in Java. 6
- (b) Explain the use of multiple catch blocks in exception handling with suitable example. 6

OR

8. (a) Explain :
 - (i) Throw
 - (ii) Throws
 - (iii) Finally.6
- (b) What is multithreading ? Explain how threads can be created. 6
9. (a) What is Applet ? Explain any three methods of applet. 6
- (b) Write a program to demonstrate any two GUI components. 6

OR

10. (a) Explain any three graphic class methods. 6
- (b) What is event ? Explain different types of events. 6