

CBCS SCHEME

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BPLCK205C

Second Semester B.E./B.Tech. Degree Examination, Dec.2025/Jan.2026
Basics of Java Programming



Max. Marks: 100

*Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.
 2. M : Marks , L: Bloom's level , C: Course outcomes.*

| Module – 1 | | | M | L | C |
|-------------------|----|---|----|----|-----|
| Q.1 | a. | Explain the basic principles of object oriented programming. | 10 | L2 | CO1 |
| | b. | Explain primitive data types used in Java. | 10 | L2 | CO1 |
| OR | | | | | |
| Q.2 | a. | Explain different lexical issues in Java. | 10 | L2 | CO1 |
| | b. | Explain one dimensional array with an example. | 10 | L2 | CO1 |
| Module – 2 | | | | | |
| Q.3 | a. | Demonstrate any three bitwise logical operators with an example and program. | 10 | L3 | CO2 |
| | b. | Explain ternary operator with an example program. | 10 | L2 | CO2 |
| OR | | | | | |
| Q.4 | a. | Demonstrate switch statement with syntax and example. Write a program to implement simple calculator. | 10 | L3 | CO2 |
| | b. | Explain any two iterative statements with an example program. | 10 | L2 | CO2 |
| Module – 3 | | | | | |
| Q.5 | a. | Discuss parameterized constructor with a programming example. | 10 | L2 | CO1 |
| | b. | Write a Java program to perform stack operation using proper class and methods. | 10 | L3 | CO1 |
| OR | | | | | |
| Q.6 | a. | Demonstrate the working of recursion with example. | 10 | L2 | CO1 |
| | b. | Write a Java program demonstrating method overloading. | 10 | L3 | CO1 |
| Module – 4 | | | | | |
| Q.7 | a. | Discuss different types of inheritance in Java. | 10 | L2 | CO3 |
| | b. | Elaborate method overriding with example program. | 10 | L2 | CO3 |
| OR | | | | | |
| Q.8 | a. | Demonstrate dynamic method dispatch with example. | 10 | L1 | CO3 |
| | b. | Define abstract class. Discuss with an example program. | 10 | L2 | CO3 |
| Module – 5 | | | | | |
| Q.9 | a. | Define Package. Explain with an example program. | 10 | L2 | CO4 |
| | b. | Explain the try, catch and finally blocks in Java. Provide code to demonstrate. | 10 | L2 | CO4 |
| OR | | | | | |
| Q.10 | a. | Define Interface. Demonstrate the working of interface with example. | 10 | L2 | CO4 |
| | b. | Explain different access protection in Java. | 10 | L2 | CO4 |
