



**II Semester B.C.A. Examination, June/July 2025  
(NEP)**

**COMPUTER APPLICATIONS**

**2.2 : Object Oriented Programming Using Java**

Time : 2½ Hours

Max. Marks : 60

**Instruction : Answer any four questions from each Part.**

**PART – A**

- I. Answer any four questions. Each question carries two marks : **(4×2=8)**
- 1) What is an Object ?
  - 2) Define Polymorphism.
  - 3) Why strings are immutable in Java ?
  - 4) Define an abstract class.
  - 5) What is an event ? Mention any two events.
  - 6) What is a Package ?

**PART – B**

- II. Answer any four questions. Each question carries five marks : **(4×5=20)**
- 7) Explain all the access specifiers in Java with an example each.
  - 8) What is an Array ? Explain the types of arrays in Java with an example.
  - 9) What is a Thread ? Explain the life cycle of a Thread.
  - 10) Explain any four methods of Math class.
  - 11) What is an Exception ? How exceptions are handled in Java ?
  - 12) Write a program to demonstrate Method Overloading.

**PART – C**

- III. Answer any four questions. Each question carries eight marks : **(4×8=32)**
- 13) a) Explain various looping statements in Java. **4**
  - b) Differentiate Method Overloading and Method Overriding. **4**



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| 14) a) Explain Applet life cycle with neat diagram.   | 4 |
| b) What is Inheritance ? Explain the different types of Inheritance.                                | 4 |
| 15) a) Explain Switch-case statement with syntax and example.                                       | 4 |
| b) Write a program to find the sum of two integers and 2 float numbers using<br>method overloading. | 4 |
| 16) a) Explain the different types of Layout Managers.  | 4 |
| b) Explain creation of user defined packages with an example.                                       | 4 |
| 17) a) Explain briefly the swings with their features.  | 4 |
| b) Explain Mouse and Keyboard Events.   | 4 |
| 18) a) Explain Java Collection Framework with the benefits.   | 4 |
| b) Write note on Java Beans.  | 4 |