

D 130095**(Pages : 2)****Name.....****Reg. No.....****FIFTH SEMESTER CBCSS-UG DEGREE EXAMINATION
NOVEMBER 2025****(2019 Syllabus)****BCA****BCA 5B 08—JAVA PROGRAMMING****Time : Two Hours****Maximum : 60 Marks****Section A - Short Answer Type Questions***All questions can be answered.**Each correct answer carries a maximum of 2 marks.**(Ceiling 20 Marks)*

1. Define class in object-oriented programming.
2. Write the characteristic of polymorphism in OOPS.
3. Write the purpose of constructors in Java.
4. Write the difference between method overloading and method overriding.
5. Write the types of inner classes in Java.
6. Define inheritance in OOPS.
7. Write the syntax for a for-loop in Java.
8. Write the use of the finalize method in Java.
9. Write the difference between byte streams and character streams in Java.
10. Write the role of the import statement in Java.
11. Write the components of the AWT hierarchy in Java.
12. Write the purpose of the ResultSet interface in JDBC.

(Ceiling 20 marks)**Section B - Paragraph/ Problem Type Questions***All questions can be answered.**Each question carries 5 marks.**(Ceiling 30 Marks)*

13. Define abstraction and encapsulation with examples.
14. Describe the lifecycle of a java thread.

Turn over

15. Explain the process of writing to a text file using Buffered Streams in Java.
16. Explain how method overloading is achieved in Java with examples.
17. Describe the structure of an applet in Java.
18. Discuss the different types of layout managers in AWT.
19. Write a Java program that uses inheritance to extend a class and override a method.

(Ceiling 30 marks)

Section C - Essay Type Questions

*Answer any **one** of the following questions.
The question carries 10 marks.*

20. Explain the concept of inheritance and its types in Java.
21. What is an exception ? Explain exception handling in java with examples.

(1 × 10 = 10 marks)