



ST. FRANCIS DE SALES COLLEGE

A FRANSALIAN INSTITUTE OF HIGHER EDUCATION **AUTONOMOUS**

NAAC A GRADE • AFFILIATED TO BANGALORE UNIVERSITY • AICTE APPROVED • 2(F) & 12 (B) RECOGNITION OF UGC • ISO 9001:2015 CERTIFIED
Electronics City P.O., Bengaluru - 560 100, Karnataka, INDIA ☎ (+91) 8088140679 ✉ pro@sfscollege.in 🌐 www.sfscollege.in

END SEMESTER EXAMINATION – APRIL/MAY 2026

COMPUTER SCIENCE – II SEMESTER BCA(F+R)

24BCA24 – OBJECT ORIENTED PROGRAMMING USING JAVA

Time: 3 Hours

Max. Marks: 80

Instruction: *Answer should be written completely in English.*

SECTION - A

Answer any **FIVE** questions. Each question carries **TWO** marks.

(5X2=10)

1. Define OOPs.
2. Define break and continue.
3. Define package with syntax and example.
4. Write a Java statement to create an object of a class.
5. Compare standard input stream and standard output stream.
6. What is an Event Listener Interface?
7. What is the difference between checked and unchecked exceptions in Java with suitable examples?

SECTION - B

Answer any **SIX** questions. Each question carries **FIVE** marks.

(6X5=30)

8. Explain the features of JAVA.
9. Explain the different types of arrays with example code.
10. Write a Java program demonstrating the use of private and protected visibility modifiers in inheritance.
11. Write a Java program to demonstrate method overloading.
12. Explain in detail the Applet Life Cycle.
13. Explain different types of exceptions in Java with examples.
14. Describe the life cycle of a thread in Java.
15. Explain in detail the concept of thread synchronization.

SECTION - C

Answer any **FIVE** questions. Each question carries **EIGHT** marks.

(5X8=40)

16. Explain the concept of Constructors with example code. Write a program to show the working of Constructor Overloading.
17. Write a Java program to create a user-defined package and access a class from it.
18. Explain the types of inheritance in Java with suitable diagrams.
19. Describe the different types of Layout Managers in Java with proper diagrams.
20. Explain special string operations and character extraction methods in Java with examples.
21. Write a Java program to demonstrate exception handling by using try-catch-finally blocks to handle division by zero.
22. Assess the importance of JDBC and ODBC connectivity in Java for database-driven applications.

