

**BACHELOR OF TECHNOLOGY (CBCS - 2023)**  
**B. Tech. Sem-III Computer Science & Engineering : WINTER : 2024**  
**SUBJECT: OBJECT ORIENTED METHODOLOGY**

Day : Friday  
Date : 13/12/2024

**W-29205-2024**

Time : 10:00 AM-01:00 PM  
Max. Marks : 60

**N.B :**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat and labeled diagram **WHEREVER** necessary.
- 4) Assume suitable data if necessary.

**Q.1** Write the difference between C, C++ and Java. Explain different features of Java. (10)

**OR**

**Q.1** Explain different operators in Java and write a Java Program that include Arithmetic, Logical, Bitwise and Relational Operator? (10)

**Q.2** Define classes and object. Explain object creation with new keyword using simple Java program? (10)

**OR**

**Q.2** Write a Java program to define class employee with members empid and salary. Accept data for five employees and display details of employees getting highest salary. (10)

**Q.3** What is destructor? Explain in details Garbage collection in Java. (10)

**OR**

**Q.3** Explain following String Handling technique : (10)

- a) Immutable string
- b) String comparison
- c) String concatenation
- d) Substring

**Q.4** Describe method overriding. Write a Java Program to implement method overriding? (10)

**OR**

**Q.4** What is interface in Java? Write a program to implement interface in java. (10)

**Q.5** What is exception handling in Java? Write short note on nested try and finally block with example? (10)

**OR**

**Q.5** Explain any five methods of thread class and write java thread example by implementing Runnable Interface? (10)

**Q.6** Describe AWT and its role in building GUI-based applications in Java. (10)

**OR**

**Q. 6** What is swing? Write a java swing program to find the sum of two numbers. (10)

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