

# CBCS SCHEME

18CS653

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## Sixth Semester B.E. Degree Examination, June/July 2023 Programming in Java

Time: 3 hrs.

Max. Marks: 100

**Note:** Answer any FIVE full questions, choosing ONE full question from each module.

### Module-1

- 1 a. Explain the three OOP principles. (06 Marks)  
b. List and explain Control statements syntax with example. (08 Marks)  
c. Explain the following (06 Marks)  
i) Identifiers ii) Literals iii) Comments.

OR

- 2 a. List and explain different Integer types. (08 Marks)  
b. Explain Java's Automatic Conversions and Casting Incompatible type. (06 Marks)  
c. Explain Initialization and Retrieval of content of different arrays in Java. (06 Marks)

### Module-2

- 3 a. Explain the basic Arithmetic Operators. (08 Marks)  
b. Explain ? Operator, with example. (06 Marks)  
c. List and explain Relational Operators. (06 Marks)

OR

- 4 a. Explain the Control statements : i) if – else ii) Switch with example. (06 Marks)  
b. Explain following Jump statements : i) Continue ii) Break. Provide proper output interpretation. (08 Marks)  
c. Explain all bitwise operators. Consider a = 3 and b = 6. Apply Bitwise logical operations on these operands and print suitable results. (06 Marks)

### Module-3

- 5 a. Explain following keywords supported in Java : (08 Marks)  
i) this ii) super iii) final iv) static.  
b. Explain Recursion in Java with example. (06 Marks)  
c. Explain different Access specifiers with example. (06 Marks)

OR

- 6 a. What is Dynamic method dispatch? Explain. (06 Marks)  
b. Explain Creation of Multilevel hierarchy in Java with example. (08 Marks)  
c. Differentiate method overloading and method overriding with example. (06 Marks)

### Module-4

- 7 a. Define Interface. Explain how to define implement and assign variable in interface to perform "One interface multiple method". (06 Marks)  
b. Write a short notes on : (08 Marks)  
i) Importing packages ii) Access protection with respect to packages.  
c. Explain Exception Handling Fundamentals in Java. (06 Marks)

OR

- 8 a. Explain Uncaught Exception. (06 Marks)  
b. Explain Java's checked and Unchecked exception. (08 Marks)  
c. Explain Chained exception. (06 Marks)

**Module-5**

- 9 a. List and explain different types Wrapper with syntax. (06 Marks)  
b. Explain the Fundamentals of Applets. (08 Marks)  
c. Explain String Constructors of Java. (06 Marks)

OR

- 10 a. Explain Character Extraction methods of Java. (08 Marks)  
b. Explain the String Modify methods : Concat ( ) , replace ( ) , trim ( ) with example. (06 Marks)  
c. Explain the following with respect to string buffers : (06 Marks)  
i) Append ( )      ii) insert ( ).

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