



Sixth Semester B.E./B.Tech. Degree Examination, June/July 2025

Programming in JAVA

18CS653

Max. Marks:100

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

Module-1

- 1 a. Explain three OOPs principles. (06 Marks)
- b. Discuss Primitive Data types used in JAVA. (08 Marks)
- c. Explain type conversion in JAVA with example. (06 Marks)

OR

- 2 a. Explain the concept of array in JAVA with example. (08 Marks)
- b. What are keywords and identifiers? List the rules to write identifiers? (06 Marks)
- c. Discuss Lexical issues in JAVA programs. (06 Marks)

Module-2

- 3 a. What are different types of operators in Java? Explain them. (10 Marks)
- b. Write a program to find biggest among 3 numbers using ternary operator. (05 Marks)
- c. Differentiate between while – loop and do-while loop in Java. (05 Marks)

OR

- 4 a. Write a java program to perform simple calculator operation. (05 Marks)
- b. Discuss for – each loop with an example. (05 Marks)
- c. Demonstrate the use of : (10 Marks)
 - i) Continue statement in while loop
 - ii) Break statement in do while loop.

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. What is Package? How to create and import package in java. Explain with an example. (10 Marks)
- b. What is an Interface? Explain how to define and implement interface by taking suitable example. (10 Marks)

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OR

- 8 a. What is an exception? Explain the following : (12 Marks)
 - i) Try
 - ii) Catch
 - iii) Throw
 - iv) Throws
 - v) Finally

- b. How do you create your own exception class? Explain with a program. (08 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 : (06 Marks)

Concat (), replace (), trim () with example.
- c. Explain the following with respect to string buffers : (06 Marks)
 - i) Append ()
 - ii) insert ()

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