



CBCS SCHEME

21CS642

Sixth Semester B.E./B.Tech. Degree Examination, June/July 2026 Advanced Java Programming

Time: 3 hrs.

Max. Marks: 100

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

Module-1

- 1 a. What is Enumerations? Explain the value() and valueOf() methods. (05 Marks)
- b. Write an illustrative program to mix different types of numeric objects in an expression. (05 Marks)
- c. Explain the following :
 - i) Type wrappers
 - ii) Auto boxing/unboxing (10 Marks)

OR

- 2 a. List and explain the built in general purposes annotations. (10 Marks)
- b. Write a java program to illustrate the annotation at Runtime by the use of reflection. (10 Marks)

Module-2

- 3 a. What are Generics? Explain a Simple Generic example. (10 Marks)
- b. Give the General form of a Generic Class? Explain. (10 Marks)

OR

- 4 a. Explain the following with example
 - i) Creating a generic method
 - ii) Generic Interfaces (10 Marks)
- b. Write a Java Program to illustrate the Generic Class Hierarchies. (10 Marks)

Module-3

- 5 a. Write a Java Program to demonstrate the use of constructors in string class. (10 Marks)
- b. Explain the character extraction methods in string class. (10 Marks)

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.

OR

- 6 a. Explain the following :
i) String Comparison Method
ii) Modify a string (10 Marks)
- b. Write a Java Program to changing the case of characters within a string. (10 Marks)

Module-4

- 7 a. What is Servlet? Explain the different stages in Life Cycle of a servlet API's. (10 Marks)
- b. Develop a simple servlet program that handles the HTTP request and response. (10 Marks)

OR

- 8 a. Write a short notes on :
i) Session tracking
ii) Cookies (10 Marks)
- b. Write a JSP program to create with one 'username' and cookie value 'xyz'. Also display stored cookies in webpage. (10 Marks)

Module-5

- 9 a. Explain the various steps of JDBC process with code snippets. (10 Marks)
- b. List and explain the different types of database drivers in JDBC. (10 Marks)

OR

- 10 a. Write a Java Program to use the statement object to executeQuery() and executeUpdate() methods. (10 Marks)
- b. Explain the following :
i) Meta Data
ii) Reading the ResultSet. (10 Marks)
