

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

B.Tech.(AI&DS) (Sem.–5)

JAVA PROGRAMMING

Subject Code :BTAIML509-20

M.Code : 93951

Date of Examination : 27-11-2025

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

1. Write briefly :

- a) JVM
- b) Finalize()
- c) Identifiers
- d) Class vs Object
- e) Generic class
- f) Inheritance
- g) Packages
- h) Exceptional handling
- i) AWT components
- j) JDBC

SECTION-B

2. Explain various primitive datatypes and operators.
3. Write a note on method overloading and recursion.
4. Discuss the role of constructors in inheritance.
5. Explain the concept of threads with the help of example.
6. Differentiate between arraylist and vector.

SECTION-C

7. Explain basics of components and containers, layout managers and swing components.
8. Describe the servlet life cycle and deploying servlets.
9. Define threads, synchronization threads, inter communication of threads.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.