Code No: E-5717/N/BL/AICTE

FACULTY OF ENGINEERING

B.E. CSE(AI & ML) IV - Semester (AICTE) (Main & Backlog) (New) Examination, September /October 2023

Subject: Java Programming

Time: 3 Hours

Max. Marks: 70

Note: (i) First question is compulsory and answer any four questions from the remaining six questions. Each questions carries 14 Marks.

- (ii) Answer to each question must be written at one place only and in the same order as they occur in the question paper.
- (iii) Missing data, if any, may be suitably assumed.
- 1. a) Why "this" keyword is used?
 - b) Write the usages of "super" and "final" keywords.
 - c) Define thread. Write various methods of creating threads.
 - d) What do you mean by serialization?
 - e) What are different sources of events in java?
 - f) Write about different JDBC drivers used for database programming.
 - g) Discuss about the package used for servlets in java.
- (2. a) What is constructor? Explain its purpose with java program.
 - b) Explain different types of data types used in java.
- (3. a) What is exception handling? Explain about various keywords used for exception handling in java with examples.
 - b) What is an interface? Explain the implementation of multiple inheritance using interfaces with example.
- (4.) a) Write about stack class and stringtokenizer class.
 - b) Distinguish between byte stream and character stream classes.
 - ★ a) Discuss various Abstract Window Toolkit (AWT) containers with examples.
 - b) List the Java event listeners and explain the role of each event listener in event handling.
 - 6. a) Explain in detail with examples
 - (i) JLabel (ii) JTextField (iii) JTabbedpane (iv) JList
 - b) Write a java servlet program for handling HTTP request and response.
- 7. a) What is inheritance? Explain different types of member access rules in java inheritance.
 - b) Write a java program to illustrate the usage of thread priorities.