

FACULTY OF ENGINEERING

**B.E. (CSE) III – Semester (AICTE) (Main & Backlog) (New) Examination,
February/ March 2023**

Subject: OOPS Using Java

Max. Marks: 70

Time: 3 Hours

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) What is the meaning of keyword static and final?
(b) Is multiple inheritance supported in java? Why?
(a) How an exception is handled in java?
(b) What is serialization and de-serialization of data?
(c) List the different layout managers in java?
(d) What are the four types of JDBC?
(e) Difference between Swing Components and AWT Components?
2. (a) What are the Object oriented concepts in java?
(b) Why String object is immutable? Differentiate between String, String Buffer and String Builder class.
3. (a) Illustrate with example define and implement an interface?
(b) Consider three statements in a 'try' block: statement1, statement2, and statement3. It is followed by a 'catch' block to catch the exceptions that occurred during the execution of the 'try' block. Assume that the exception is thrown at Statement2. Do you think the statement3 will be executed?
4. (a) Implement a java program to create a new file and how to read a file?
(b) Explain different iterators used for accessing the elements with examples?
5. (a) Create a login application form using various AWT Controls?
(b) What is JDBC and its architecture?
6. (a) Write about Swing in detail?
(b) Write a program to demonstrate any one component of Swing?
7. Write short notes on:
(b) Object Class
(c) Hash Table
(d) Jump Statements