FACULTY OF ENGINEEERING

B.E. (IT) IV-Semester (AICTE) (Main) (New) Examination, September/October 2022

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) Write about different usages of "super" keyword in Java.
 - (b) Differentiate between method overloading and method overriding in Java.
 - (e) What is an Applet in Java?
 - (d) What is a package in Java, and how to create it?
 - (a) What is an exception, list keywords used in handling an exception?
 - (f) What is the difference between List and Set interface in Java Collections?
 - (g) List different JDBC drivers.
 - 2. (a) Explain about Dynamic Method Dispatch in Java. Write a program to demonstrate it.
 - (b) Write a program to define and implement an interface in Java.
 - 3. (a) Explain about multithreading in Java, write a program to create multiple threads.
 - (b) How does Java achieve synchronization among multiple threads?
- 4. (a) Explain about Serialization in Java, and write a program to demonstrate it.
 - (b) Explain about the life cycle of a Java Applet using a program.
- 5 (a) Explain about the Array List collection class and demonstrate how to access contents of it using an Iterator.
 - (b) Differentiate between Swing and AWT components.
- (a) Discuss in detail about all usages of "super" keyword in java, and demonstrate the same using a Java program.
 - (b) Briefly explain about File class and various attributes it has, and write a program.
- 7. (a) Explain about Java Servlets in detail, the classes and interfaces used in it and write a program to demonstrate a simple Servlet.
 - (b) List and explain methods of Sorted Set interface.
