FACULTY OF ENGINEERING
B.E. (AI&DS) III - Semester (AICTE) (Main) Examination, March/April 2022

Subject: OOps Using Java

Time: 3 Hours

Max. Marks: 70

Note: (i) First question is compulsory and answer any four questions from the remaining six questions. Each question 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 is Java known as platform independent?
   (b) Define data abstraction.
   (c) What is the use of super keyword?
   (d) Discuss various methods used to create threads.
   (e) What is a stream? What are 2 types of stream that Java defines? List two I/O classes in each category.
   (f) Explain the types of exceptions.
   (g) What are the merits of swing components over AWT?

2 (a) Write a program to find sum of numbers passed as command line arguments.
   (b) What is an array? How arrays are declared and initialized? Explain with example.

3 (a) Does Java support run-time polymorphism. Illustrate with an example.
   (b) Write about access specifiers in Java.

4 (a) Differentiate between ArrayList and Vector.
   (b) What combination of classes can be used to write and read serializable directs to and from a file? Illustrate with an example.

5 (a) Example about event classes and event listeners interfaces.
   (b) Discuss the four types of JDBC driver with suitable diagrams.

6 (a) Explain about servlet life cycle.
   (b) Explain various components of Swing.

7 Write short note on:
   (a) Packages
   (b) Final Keyword
   (c) Exception Handling.

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