

Roll No.

ED–2874

B. C. A. (Part III) EXAMINATION, 2021

Paper Fourth

(Programming in JAVA)

Time : Three Hours

Maximum Marks : 100

Note : Attempt any *two* questions from each Unit. All questions carry equal marks.

Unit—I

1. (a) Explain the following types of classes and their uses :
 - (i) inner class
 - (ii) final class, and
 - (iii) wrapper class ?
- (b) How is Java different from a structured programming language ?
- (c) Write a program to find the transpose of a given matrix.

Unit—II

2. (a) What is the difference between method overriding and method overloading ?

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- (b) How to create a package ? Explain with example.
- (c) How to add class or interface to a package ?

Unit—III

- 3. (a) Explain the following terms with respect to exception handling.
 - (i) try
 - (ii) catch
 - (iii) throw
 - (iv) finally
- (b) Discuss about suspending, resuming and stopping thread in brief.
- (c) What is Java thread model ? Discuss about creation of threads in Java.

Unit—IV

- 4. (a) Write a program to implement the operations of random access file.
- (b) Explain the types of drivers used in JDBC.
- (c) Define stream. Explain Byte and character stream in Java.

Unit—V

- 5. (a) What is an applet ? How it different from an application ?

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- (b) Describe about various components in AWT.
- (c) Write an applet for each of following graphics methods.
 - (i) drawoval()
 - (ii) drawrect()