

**E-3922**

**B.C.A. (Part- III) EXMINATION, 2021**

**Paper Fourth (Old Course)  
PROGRAMMING IN JAVA  
(302)**

*Time- Three Hours]*

*[ Maximum Marks: 100*

*[Minimum Pass Marks : 40*

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

**Unit- 1**

1. (a) What is object oriented programming discuss the basic concept of object oriented Programming
- (b) Explain String and String Buffer Class.
- (c) What is method overriding ? Explain method Overriding with Suitable example?

**Unit- 2**

2. (a) What are inheritance and explain variables in inheritance
- (b) What is Package ? Explain the procedure and importing package
- (c) What is abstract and final classes in Java ? explain

**Unit- 3**

3. (a) Write a program which generate and trap the array index out of bound exception
- (b) What is Multithreading ? What is thread priority ? Discuss
- (c) Write short note on the Following
  - ( i ) try and catch blocks
  - ( ii ) suspending resuming and stopping threads

**Unit- 4**

4. (a) Explain byte and character stream
- (b) Explain the procedure for setting the JDBC connectivity with bankend database
- (c) What is TCP IP client and server socket in Java

**Unit- 5**

5. (a) Explain how a simple applet can be created Give suitable program , compiling Command and execute it by applet Viewer .
- (b) Explain the benefits of abstract window Toolkit (AWT) and also write five basic AWT components of the Java
- (c) Explain the following
  - (i) Handling Mouse events
  - (ii) HTML Applet tag