

B.Tech IV Year II Semester (R15) Advanced Supplementary Examinations July 2019

**JAVA PROGRAMMING**

(Electronics &amp; Instrumentation Engineering)

Time: 3 hours

Max. Marks: 70

**PART – A**  
(Compulsory Question)

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- 1 Answer the following: (10 X 02 = 20 Marks)
- (a) State the principles of OOP.
  - (b) How is a Java program compiled?
  - (c) What is the use of net keyword?
  - (d) How multiple inheritances are achieved in Java?
  - (e) List the different exceptions that arise during runtime?
  - (f) Write a program to read a file using character stream.
  - (g) State the difference between multiprocessing & multithreading.
  - (h) How do you manipulate URL in Java?
  - (i) What are the advantages of swing over awt?
  - (j) Give the syntax of draw image () method.

**PART – B**  
(Answer all five units, 5 X 10 = 50 Marks)**UNIT – I**

- 2 Write a Java program to add two matrices.

**OR**

- 3 Explain string and string buffer classes in Java.

**UNIT – II**

- 4 Write a program to arrange numbers in ascending and descending order with an interface.

**OR**

- 5 Explain the significance of abstract class and methods.

**UNIT – III**

- 6 Write a program to input name and age of a person and throw an user defined exception, if the entered age is negative.

**OR**

- 7 Describe various stream classes.

**UNIT – IV**

- 8 Write a program defining two threads – one for displaying the multiplication table of five and the other for the table of four.

**OR**

- 9 Describe the life cycle of an applet.

**UNIT – V**

- 10 Write a Java swing program to implement border method.

**OR**

- 11 How do you create a modeless dialog box in Java?

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