

B.Tech IV Year II Semester (R13) Advanced Supplementary Examinations July 2017

**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) List primitive data types along with their memory requirements in Java.
  - (b) What is string? List two string handling functions with their use.
  - (c) What is overloading and overriding?
  - (d) Define package.
  - (e) Define exception.
  - (f) Differentiate between character and byte stream classes.
  - (g) What is thread priority? List them with their values.
  - (h) Define cookie.
  - (i) List two swing containers.
  - (j) Discuss various packages that work with swing components.

**PART – B**

(Answer all five units, 5 X 10 = 50 Marks)

**UNIT – I**

- 2 Write a Java program which makes use of all the operators present in Java.

**OR**

- 3 Write a program to replace the occurrence of the word "was" with "is" in a sentence.

**UNIT – II**

- 4 Define "inheritance". Explain with proper implementation of inheritance in Java with pseudo code.

**OR**

- 5 What is role of packages in Java? How packages are created in Java? Explain with examples.

**UNIT – III**

- 6 Create user defined exception "Number equal to zero". Throw this exception when user enters zero value.

**OR**

- 7 What is wrapper class? Explain any four methods of any two wrapper classes.

**UNIT – IV**

- 8 What is an "applet"? Explain the life cycle of applet with an example.

**OR**

- 9 What is protocol? Write a networking program to calculate factorial of a number.

**UNIT – V**

- 10 Create a form using swing for university result management system with various components. Create one button, When this button pressed student result should be displayed.

**OR**

- 11 Create a form using swing with a menu for banking system. Menu should contain items related to banking operations and facilities. A bank form should get open when menu items are clicked.

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