

Roll No. ....

Total Pages : 03

BT-5/D-18

35160

JAVA PROGRAMMING

IT-305N

Time : Three Hours]

[Maximum Marks : 75

Note : Attempt *Five* questions in all, selecting at least *one* question from each Unit. All questions carry equal marks.

### Unit I

1. (a) Explain briefly the following object oriented concepts :
    - (i) Abstraction
    - (ii) Polymorphism.
  - (b) Define class and method. How objects are assigned as reference variable ?
  - (c) Write a Java program to interchange the row and columns of a given matrix.  $5+5+5=15$
2. Explain the following with example :
    - (a) String handling using string buffer class
    - (b) The universal super class-objected class.  $8+7=15$

### Unit II

3. (a) What do you mean by checked and unchecked exceptions ? Discuss with example.
  - (b) Write a Java program to find the area and perimeter of square and circle using interface.  $8+7=15$
4. (a) Explain the following with necessary code snippets :
    - (i) Creating thread
    - (ii) Stopping and Blocking a Thread.
  - (b) How do you store and retrieve objectives from file ? Discuss. <http://www.kuonline.in>  $8+7=15$

### Unit III

5. (a) Write Applets programs to accomplish the following tasks :
    - (i) Drawing polygons
    - (ii) Drawing a line graph.
  - (b) Can applet class have a constructor ? Justify your answer with proper explanation and example.  $8+7=15$
6. (a) Explain any *two* AWT controls in Java with suitable examples.
  - (b) What is JDBC API ? How connection is established with database. Briefly explain transactions.  $8+7=15$

#### Unit IV

7. Write notes on the following :

(a) Event classes and event listeners

(b) Servlet chaining. 8+7=15

8. (a) What do you mean by synchronization ? Discuss.

(b) Explain init and destroy with suitable examples.

8+7=15

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