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Total No. of Page: 2

# BT-5/D11: 7755

# 17-355: Network Programming

Time: Three Hours

7755

Maximum Marks: 100

Note:- Attempt any FIVE questions in all, selecting at least ONE question from each unit.

#### UNIT-1

- Q.1. a) What do you mean by abstraction and encapsulation? How are these implemented in Java? Explain with an example.
  - b) What are default and parameterized constructors in Java? Explain with examples. Also discuss the process of automatic garbage collection in Java.
- Q.2 a) How can you create a string in Java? Explain with an example. Also discuss toString(), charAt() and to charArray() string handling functions with examples.
  - Explain the use of 'super' and 'final' keywords in the context of inheritance in Java.

#### UNIT - II

- Q.3 a) What is package in Java? Discuss the levels of access protection in a package.
  - b) Explain the use of 'throw', 'throws' and 'finally' keywords in handling exceptions in Java.

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- Q.4 a) How can you create a thread using Runnable interface? What is synchronization? How is it achieved in multithreading? Explain.
  - How can you read numeric data from console and write into a file.

#### UNIT - III

- Q.5 a) What is Applet in Java? How can you pass parameters to an applet? Explain.
  - b) What is ServerSockets class in Java? How is it different from Socket Class?
- Q.6 a) What is Window class? How can you set dimension of a window, set title of a window, hide and show a window? Explain.
  - b) How can you connect a relational database using IDBC? Explain.

### UNIT - IV

- Q.7 a) Explain Delegation Event Model of Java. How can you use it to handle mouse events?
  - What are Adapter classes? List five Adapter classes and five Listener interfaces. Also, discuss two methods of MouseMotionAdapter class.
- Q.8 What do you understand by servelet? Write a detailed note on its life cycle,

Contd.