Term End Examination - May 2012

Course :   ITE311 - Network Programming   Slot: G2+TG2

Time   :   **Three Hours**   Max.Marks:100

PART – A (8 X 5 = 40 Marks)
Answer ALL Questions

1.   a) Expand and brief about NNTP, IETF,S/MIME.   **[3]**

      b) State the purpose of SO_REUSEADDR and SO_REUSEPORT Socket options.   **[2]**

2.   List five attributes of the JavaMail API and Expalin.

3.   Mention five public methods in RMI registry interface also explain them.

4.   a) Distinguish between ServerSocket and DatagramSocket.   **[2]**

      b)What is a malformed url, and why is it exceptional?   **[3]**

5.   Sketch the structure of UDP datagram with a diagram.

6.   Identify the protocols for the following Well-known port assignments.

      a) 7   b) 13   c) 20   d) 79   e) 143

7.   What is remote method invocation? When should we use remote method invocation?

8.   Narrate the basic sequence steps for opening URLConnections and reading data from a
      server.

PART – B (6 X 10 = 60 Marks)
Answer any SIX Questions

9.   How do you access password-protected web pages? Explain with an Implementation
      program.

10.   a) List the various methods of SSL Socket Class with relevant examples.   **[4]**

      b) Explain the URL encoding with the help of an example program.   **[6]**

11.   a) Write a java code to an applet client for the Fibonacci object.   **[5]**

      b) Write a java code to retrieve socket information from a host using an Echo Client. **[5]**

12.   Explain the various UDP server side System Calls and getsocket, setsocket functions in
      detail.

13. Discuss about the various constructors and methods used in sockets for clients with an example program.

14. a) Seggregate the different parts of the following URLs **[6]**

   i) http://www.ibiblio.org/nywc/compositions.phtml?category=piano#8080

   ii) http://admin@www.blackstar.com:8080/

   iii) ftp:/btech:it3@192.168.64.45.21000/c%3a/

   b) Explain how to create and terminate a thread with suitable example. **[4]**

15. Analyze wait and notify methods in the scenario of producer consumer problem. Implement the same using threads.

16. a) Compare and contrast the IPversion 4 with IPversion 6. **[5]**

   b) Write short note on various address types. **[5]**

⇔⇔⇔