Regular Arrear Examination - December 2013

Course   : **ITE311   -   Network Programming**

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

PART – A (8 X 5 = 40 Marks)
Answer <u>ALL</u> Questions

1.   Create a client socket to read the time sent by the server.

2.   (i) How is session tracking handled by a web server?   **[3]**

        (ii) Briefly explain how XML differs from a HTML.   **[2]**

3.   Explain about Raw Socket Creation and its uses.

4.   How the block level synchronization differs from method level synchronization?

5.   Write a java program using RMI to list all the names currently bound in a particular registry.

6.   Explain the various ways in which multiple threads can be scheduled simultaneously.

7.   How to bind to a local port using Datagram Socket?

8.   How Does the Domain Name System Work?

PART – B (6 X 10 = 60 Marks)
Answer any <u>SIX</u> Questions

9.   Explain the various UDP server side system calls and getsocket, setsocket functions in detail.

10.   Explain the life cycle of a thread. Draw the transition diagram and describe the transitions between every state.

11.   Write short notes on:

        i)   Content handlers   **[3]**

        ii)   Inet4Address and Inet6Address   **[4]**

        iii) SSLServerSocket Class   **[3]**

12.   Explain in detail about gethostbyname function with appropriate structures.

13.   (i) Write a java program to authenticate the mail through authenticator class.   **[5]**

        (ii) Write a java program to send an email through an applet.   **[5]**

14.   Develop a redirector which reads an URL and port number from the command line and opens a server socket on the port and redirects all the requests to the new URL.

15.   How to build an echo client that will send packets to the server as well as read the results back.

16.   Explain the following with an example:

            (i)   RMI service interface.   **[6]**

            (ii)   Stub and skeleton classes.   **[4]**

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