R07

Code: R7410501

B.Tech IV Year I Semester (R07) Supplementary Examinations, May 2013

NETWORK PROGRAMMING

(Common to CSE and IT)

Time: 3 hours

Max. Marks: 80

Answer any FIVE questions
All questions carry equal marks

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1. (a) Explain how TCP connection is established using three-way hand-shake protocol.
   (b) What are the limitations on the size of the IP datagram also explain how they effect the data transmitted by application?

2. (a) What are the advantages of concurrent servers? Explain the procedure for handling multiple clients.
   (b) Explain byte ordering and byte manipulating functions.

3. (a) Explain POSIX signal handling.
   (b) Explain what happens when the sever host crashes?

4. (a) Explain the following generic socket options (i) SO-DONTROUTE   (ii) SO-ERR0R.
   (b) Explain and compare five different I/O models in Unix.

5. (a) Explain the important functions of OOP echo server.
   (b) Explain:
       (i) Lost datagram. (ii) Lack of flow control with UDP.

6. (a) Explain in get host by name in IPV6 address and get host by address functions.
   (b) Explain different types of resource records.

7. (a) Draw the message queue structure in kernel and explain it.
   (b) What is a pipe? Explain with an example how IPC is done using pipes.

8. (a) With a neat diagram explain the RPC execution.
   (b) Give a note on Pseudo terminals.

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