

Code: ICT 07A7EC19

**ICT**

B.Tech IV Year I Semester (R09) Supplementary Examinations, May 2013

**NETWORK PROGRAMMING**  
(Computer Science and Engineering)

Time: 3 hours

Max Marks: 70

Answer any FIVE questions  
All questions carry equal marks

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- 1 (a) Describe three-way handshake protocol for establishing TCP connection.  
(b) Summarize the protocol usage of various common internet applications.
- 2 (a) Describe the internet socket address structure.  
(b) Discuss how concurrent servers differ from an iterative server. Explain the way to write a concurrent server.
- 3 (a) Write the program for concurrent TCP echo server.  
(b) List and describe the steps involved in the normal termination of client and server.
- 4 (a) Describe getsockopt and setsockopt functions.  
(b) Explain the socket options processes by IPV 4.
- 5 (a) Give the summary of UDP client/server from client's perspective.  
(b) Discuss the effect of UDP not having any flow control.
- 6 (a) Describe gethostbyname function in detail.  
(b) Explain obsolete IPV 6 address lookup functions.
- 7 (a) What is the purpose of record locking? Explain fcntl () record locking facility.  
(b) Mention the purpose of message queues. Explain any three message queue functions.
- 8 (a) List and describe the terminal modes.  
(b) Discuss how to write RPC programs.

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