R09

Code No: C4004
JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
M.Tech I - Semester Examinations, March/April 2011
HIGHSPEED NETWORKS
(INFORMATION TECHNOLOGY)

Time: 3hours   Max. Marks: 60

Answer any five questions
All questions carry equal marks
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1. a) Explain ISO OSI model in detail.
    b) Differentiate between go back-N and Selective Repeat schemes of data link
       layer.   [12]

2. a) Define
              (i) pure ALOHS
              (ii) slotted ALOHA
              (iii)CSMA/CD
              (iv)CSMA/CA
    b) Discuss Ethernet channel efficiency.   [12]

3. a) Explain Multicast routing algorithm in detail.
    b) Describe congestion control in TCP.   [12]

4. a) Explain DNS in detail.
    b) Write about email system.   [12]

5. a) Define bridge's function and explain transparent and non transparent bridge.
    b) Explain Novell NetWare Routing.   [12]

6. a) Explain Hamming method for correcting single bit errors.
    b) Explain message format in HDLC protocol.   [12]

7. a) Write IPv6 Header format.
    b) Give TCP header format and explain the significant of each field. [12]

8. a) Differentiate between virtual circuit and datagram subnets.
    b) How do you evaluate the network performance, explain the procedures. [12]

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