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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