

END TERM EXAMINATION

SIXTH SEMESTER [B.TECH/M.TECH] MAY-JUNE 2013

Paper Code: IT-304

Time : 3 Hours

Subject: Computer Networks

Maximum Marks:60

Note: Attempt any five questions including Q. No.1 which is compulsory.
Select one question from each unit.

- Q.1 (a) Design issues of Network layer. (2)
(b) What is Latency. (2)
(c) Differentiate between circuit and packet switching. (2)
(d) What are Transmission impairments. (2)
(e) Define TDM, FDM and WDM. (2)
(f) What is Tunneling? (2)
(g) What is the minimum and maximum frame size of IEEE 802.3 frame. (2)
(h) Discuss Hubs & Switches. (4)

UNIT - I

- Q.2 (a) Explain the Layered approach of OSI Reference Model. (4)
(b) Differentiate between Data and Signal. (2)
(c) Explain main components of Telephone system. (4)

OR

- Q.3 (a) Transmit 01101110 using various digital schemes. (Atleast five). (5)
(b) Explain different types of Transmission media. (5)

UNIT - II

- Q.4 Explain sliding window protocols. (10)

OR

- Q.5 (a) What is error correction and error detection? (2)
(b) Discuss various error correction techniques. (8)

UNIT - III

- Q.6 (a) Explain channel allocation problem. (4)
(b) Discuss frame format of HDLC protocol. (6)

OR

- Q.7 (a) Explain IEEE 802.3 standard. (7)
(b) What are functions of MAC layer of IEEE 802.11 (3)

UNIT - IV

- Q.8 (a) Explain Fragmentation (4)
(b) Discuss the need of internet protocol. (6)

OR

- Q.9 Explain Adaptive and Non-Adaptive algorithms with one example each. (10)
