

END TERM EXAMINATION

FOURTH SEMESTER [BCA] MAY-JUNE-2013

Paper Code: BCA210

Subject: Computer Networks (New)

Time : 3 Hours

Maximum Marks :75

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

- 1) 5x5=25
- a) Discuss different types of transmission impairments.
 - b) List different types of connectors used for UTP, Coaxial, and Fiber-optic cabling.
 - c) List important features of ISDN & broadband ISDN.
 - d) Discuss packet switching.
 - e) Discuss logical, physical, and port addressing.

UNIT-I

- 2) Discuss advantages and disadvantages of different types of network topologies. 12.5
- 3) What is DTE-DCE interface? Discuss V-series standards of MODEM. 12.5

UNIT-II

- 4) W.r.t TDM discuss the following: 12.5
 - i) Time slots and frames
 - ii) Interleaving
 - iii) Pulse stuffing
- 5) Compare and contrast byte stuffing and bit stuffing. Which technique is used in byte oriented protocols and bit oriented protocols. 12.5

UNIT-III

- 6) Discuss any four networking devices. 12.5
- 7) What is two-node loop instability problem in distance vector routing? Discuss its three solutions. 12.5

UNIT-IV

- 8) Describe different design issues for transport and session layers of OSI model. 12.5
- 9) Discuss the frame format of TCP segment and IP packet. 12.5
