

**Q. P. Code : 13294****( 3 Hours )****( Total Marks: 80****N.B. :**

- (a) Question No.1 is compulsory.**
- (b) Total 4 questions need to be solved.**
- (c) Attempt any three questions from remaining five questions.**
- (d) Assume suitable data wherever necessary, justify the same.**

- 1.a** Which is better, ADSL or cable? Justify your answer. [5]
- 1.b** Explain the persistent strategies of CSMA. [5]
- 1.c** Explain the fields that are related to Fragmentation and Reassembly of an IPv4 datagram. [5]
- 1.d** Discuss Quality of Service (QoS) in terms of Flow characteristics. [5]
- 2.a** Explain the concept of sending an E-mail using an appropriate Application layer protocol. [10]
- 2.b** Explain with diagram the connection establishment and connection termination in TCP using Three- Way Handshaking. [10]
- 3.a** Explain how BGP achieves Inter-Autonomous System Routing. [10]
- 3.b** With an example explain the concept of building a routing table in Link state Routing. [10]
- 4.a** What is Peer to Peer(P2P) File sharing. Differentiate between the centralised and decentralised P2P. [10]
- 4.b** Explain various networking devices. [10]
- 5.a** Draw the header of IPv6. Explain each field. [10]
- 5.b** Explain in detail 802.11 Wireless LAN. [10]
- 6** Write a short notes on : [20]
- (a) Flow control using TCP
  - (b) Wi Max
  - (c) MPLS
  - (d) DNS
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