

Total No. of Questions : 10]

SEAT No. :

P3193

[Total No. of Pages : 2

[5354]-710

B.E. (Information Technology) (Semester - II)

ADVANCED COMPUTER NETWORKS

(Elective - III) (2012 Pattern)

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) *Neat diagram must be drawn whenever necessary.*
- 2) *Figures to the right indicate full marks.*
- 3) *Assume suitable data if necessary.*

- Q1)** a) How to control traffic in ATM networks? [6]
b) State the functions of ISDN? [4]

OR

- Q2)** a) State importance of latency in the network? [6]
b) What is Round Trip Time with its example? [4]

- Q3)** a) How inter-domain and intra-domain integrated routing is performed? [6]
b) What is auto-configuration in IPv6. [4]

OR

- Q4)** a) How fragmentation is carried out in ATM networks. [6]
b) State different multicast routing techniques. [4]

- Q5)** a) Explain Traffic Engineering with MPLS? [10]
b) Explain CIDR w.r.t. address blocks and bit masks. [8]

OR

- Q6)** a) Explain in detail Multi-Protocol Label Switching (MPLS)? [10]
b) Describe Virtual Private Networks w.r.t. L2 and L3. [8]

P.T.O.

- Q7)** a) What are the characteristics and operations Mobile IP. [10]
b) Compare IPv4 and IPv6. [6]

OR

- Q8)** a) Explain the process of routing? [8]
b) Explain suitability of IPv6 for existing infrastructure? [8]
- Q9)** a) State characteristics of Mobile ad hoc Networks. [6]
b) Explain DSR Protocol for ad hoc Wireless Networks. [10]

OR

- Q10)** a) What are different issues of Wireless ad hoc Networks? [6]
b) Describe DSDV protocol for ad hoc Wireless Networks. [10]

