

Total No. of Questions : 10]

SEAT No. :

P3649

[4959]-1140

[Total No. of Pages :2

B.E.(Information Technology)

ADVANCED COMPUTER NETWORKS

(2012 Pattern)(Elective-III) (Semester-II)(End Sem) (414463E)

Time :2½Hours]

[Max. Marks : 70

Instructions to the candidates:

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

Q1) a) What is the importance of latency in wired and wireless network? **[6]**

b) Define RTT.State its example. **[4]**

OR

Q2) a) What are the functions of ISDN? **[4]**

b) How to control traffic in ATM networks? **[6]**

Q3) a) Describe fragmentation in ATM networks. **[6]**

b) Enlist various multicast routing techniques. **[4]**

OR

Q4) a) How inter-domain and intra-domain integrated routing is performed?[6]

b) Define auto-configuration in IPv6 **[4]**

Q5) a) What is Multi-Protocol Label Switching(MPLS)? Explain in detail. **[10]**

b) Explain L2 and L3 w.r.t Virtual Private Networks. **[8]**

OR

Q6) a) What is Traffic Engineering? Explain it with MPLS? **[10]**

b) Describe address blocks and bit masks of CIDR. **[8]**

P.T.O.

- Q7)** a) Explain characteristics and operations of Mobile IP. [10]
b) Differentiate between IPv4 and IPv6. [6]

OR

- Q8)** a) How neighbors are discovered in routing? [8]
b) Is IPv6 suitable for existing infrastructure? Justify your answer. [8]

- Q9)** a) Write characteristics of Mobile Ad Hoc Networks. [8]
b) Explain with example DSDV protocol for Ad Hoc Wireless Networks. [8]

OR

- Q10)** a) State various issues related to wireless Ad Hoc Networks. [6]
b) Describe Dynamic source Routing Protocol for Multihop Ad Hoc wireless Networks. [10]

