

Total No. of Questions : 8]

SEAT No. :

P3313

[Total No. of Pages : 2

[5353]-188

**T.E. (Computer) (Semester - II)**

**COMPUTER NETWORKS**

**(2012 Pattern)**

*Time : 2½ hours]*

*[Max. Marks : 70*

*Instructions to the candidates:*

- 1) *Neat diagrams must be drawn wherever necessary.*
- 2) *Figures to the right side indicate full marks.*
- 3) *Assume Suitable data, if necessary.*

- Q1)** a) What is need of DHCP? Explain working of DHCP in brief. [7]  
b) Explain NAGLE'S algorithm and Clark's Algorithm for flow control [7]  
c) Compare IPv4 and IPv6. [6]

OR

- Q2)** a) Describe domain name system in detail. [7]  
b) Explain leaky bucket algorithm. Which quality parameter is ensured by leaky bucket algorithm? [8]  
c) What is need of RARP? Explain working of RARP. [5]

- Q3)** a) Explain WAP Architecture with necessary diagram. [8]  
b) Explain Architecture of IEEE 802.11. [8]

OR

- Q4)** a) Write a note on Wireless LAN Architecture. [8]  
b) Write a short note on wireless standard IEEE 802.11(a/b/g/n/ac/ad). [8]

- Q5)** Write a short note on [16]  
a) Delay tolerant networks.  
b) Vehicular networks

**P.T.O**

OR

- Q6)** a) Explain VOIP Architecture with neat diagram. [8]  
b) Explain implementation and Applications of VOIP. [8]

- Q7)** a) Write a note on [16]  
i) GMPLS.  
ii) ATM Protocol architecture  
b) Explain need of ATM. [2]

OR

- Q8)** a) Write a note on Software defined network. [8]  
b) Explain propagation of signals in optical fiber with diagram. [6]  
c) Explain ATM traffic management. [4]

