Total No. of Questions : 8]

SEAT No. :

P3313

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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 NA GALE'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]**