

Total No. of Questions : 6]

SEAT No. :

P543

[Total No. of Pages : 2

TE/Insem/APR-144

T.E. (Computer Network Technology)

INFORMATION TECHNOLOGY

(2015 Pattern) (Semester - II)

Time : 1 Hour]

[Max. Marks : 30

Instructions to the candidates:

- 1) *Answers Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6.*
- 2) *Neat diagrams must be drawn wherever necessary.*
- 3) *Figures to the right side indicate full marks.*
- 4) *Assume Suitable data if necessary.*

Q1) a) What is DHCP? Explain various messages used in DHCP. **[6]**

b) Explain distance vector routing with count-to-infinity problem **[4]**

OR

Q2) a) Understand and apply what is routing? Explain different types of routing Algorithm. **[6]**

b) Difference between ARP and RARP with IP fragmentation **[4]**

Q3) a) Calculate Following for Network address 192.168.1.0/27 **[5]**

i) No. of Valid Subnets.

ii) No. of Actual hosts per subnet

iii) Network and Broadcast address for each subnet

b) What is congestion Control? Explain leaky bucket and token bucket algorithm? **[5]**

OR

Q4) a) Compare TCP and UDP Header with suitable diagram. **[6]**

b) What is Socket? Explain different types of primitives used in client server communication. **[4]**

P.T.O.

- Q5)** a) What is Domain Name system? Explain how a resolver looks up a remote name with suitable example? [5]
- b) What is FTP? Explain any four commands used in FTP. [5]

OR

- Q6)** a) Explain in detail SNMP. [6]
- b) What is MIME? Discuss its role in SMTP. [4]

