SEAT No. :

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]**

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]**

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