SEAT No. :

TE/Insem/APR - 41
T.E. (Computer Engineering)
COMPUTER NETWORKS
(2012 Pattern) (Semester - II)

Time : 1 Hour]   *[Max. Marks : 30*

Instructions to the candidates :

1) *Figures to the right indicate full marks.*

2) *Draw neat diagrams wherever necessary.*

3) *Assume suitable data, if necessary.*

Q1) a) Explain HTTP message format in detail.   **[6]**

b) Explain MIME Header? When web pages containing emails are sent out they are prefixed by MIME Header, Why?   **[4]**

OR

Q2) a) Define Socket? Explain Socket primitives at client and server side for TCP communication with diagram.   **[7]**

b) Write short notes on DNS.   **[3]**

Q3) a) What are four general techniques to improve quality of service? Explain any one in detail.   **[4]**

b) Explain Three - Way Handshake Mechanism used by TCP for connection establishment. Explain TCP header format.   **[6]**

OR

Q4) a) What is the silly window syndrome problem? Suggest solution to overcome this problem.   **[6]**

b) Explain difference between UDP and TCP.   **[4]**

P.T.O.

Q5) a) Explain ARP message format? What are the various address Translation schemes used? **[6]**

b) Explain distance vector routing algorithm. **[4]**

OR

Q6) a) Consider sending a 3000 - byte datagram into a link that has an MTU of 500 bytes. Suppose the original datagram is stamped with the identification number 422. How many fragments are generated? What are their characteristics? **[4]**

b) Differentiate between IPV4 and IPV6 with respect to header format. **[6]**

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