

Total No. of Questions : 6]
P509

SEAT No. :
[Total No. of Pages : 2

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]

PTO.

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]

