P41

APR - 18/TE/Insem. - 43
T.E. (Computer Engineering)
COMPUTER NETWORKS
(2012 Course) (Semester - II)

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

Instructions to the candidates:

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

   2)   *Neat diagrams must be drawn wherever necessary.*

   3)   *Assume suitable data, if necessary.*

Q1) a)   What is the difference between persistent & non persistent HTTP? Explain HTTP message format. **[6]**

    b)   Can we specify file transfer in a Web page? Explain with the help of suitable example. **[4]**

<div align="center">OR</div>

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

    b)   When web pages containing emails are sent out they are prefixed by MIME Header, Why? Explain MIME Header. **[3]**

Q3) a)   What are four general techniques to improve quality of service? Explain any one in detail. **[5]**

    b)   Explain Three-Way Handshake Mechanism used by TCP for connection establishment. **[2]**

    c)   How does TCP achieves reliability? **[3]**

<div align="center">OR</div>

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

    b)   Explain TCP header format. **[4]**

P.T.O.

Q5) a) What are the various address Translation schemes used? Explain ARP message format? **[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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TE/Insem. - 43 2