Total No. of Questions :6]

SEAT No. :

P104

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APR. -16/TE/Insem. - 41
T.E. (Computer Engineering)
COMPUTER NETWORKS
(2012 Pattern) (Semester - II)

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

Instructions to the candidates:

1) *Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6.*
2) *Neat diagrams must be drawn whenever necessary.*
3) *Figures to the right indicate full marks.*
4) *Assume suitable data if necessary.*

Q1) a) Which of the TCP/IP layers are responsible for the following functionalities? **[3]**

i) Determining the best path to route the packets.

ii) Providing end-to-end process communication with reliable service.

iii) Flow control.

iv) Provides access for end user.

v) Interface to transmission media.

vi) Frame transmission locally.

b) What is the difference between persistent & non persistent HTTP? Also explain HTTP message format. **[4]**

c) When I asked my company admin for some software he asked me to use 'anonymous FTP' and download it? What is it? Outline a problem scenario using it. **[3]**

OR

Q2) a) What is DNS? Explain its working with the example. **[5]**

b) What is the use of MIME? Explain MIME header in detail. **[5]**

P.T.O.

Q3) a) Explain in detail RTP with packet header format? [5]

b) Why TCP need four different timers? Explain the functions of each. [5]

OR

Q4) a) Differentiate between TCP and UDP. [5]

b) What is socket? Which are various socket primitives used in client server communication. [5]

Q5) a) Explain ICMP in detail. [4]

b) Differentiate between IPv4 and IPv6 with header format. [6]

OR

Q6) a) What is IP? Discuss the different classes of IP addressing? Explain classful and classless routing. [5]

b) A Company is granted a site address 201.70.64.0. The company needs six subnets. Design the subnets (subnet masks for each subnet, starting address and ending address of each subnet). [5]

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