

MAR 2017

Total No. of Questions : 6]

SEAT No. :

P205

APR-17/TE/Insem.-41

[Total No. of Pages : 2

**T.E. (Computer Engg.)
COMPUTER NETWORKS
(Semester - II) (2012 Pattern)**

Time : 1 Hour]

[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 wherever necessary.
- 3) Figures to the right indicate full marks.
- 4) Assume suitable data, if necessary.

Q1) a) What is DNS ? Explain its working with example. [5]

- b) I was downloading an image image1.jpg using the following URL on 2nd November, 2015 : <http://www.istockphoto.com/images/image1.gif>
Show HTTP request and response messages for getting the image first time. [5]

OR

Q2) a) What is the difference between persistent & non persistent HTTP? Also explain HTTP message format. [5]

- b) What is DHCP? What are different types of DHCP messages? Explain. [5]

Q3) a) What causes silly Window syndrome? How is it solved ? Explain with an example. [5]

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

OR

Q4) a) My friend Balu says that TCP header having a checksum field is redundant as IP header already has a checksum. Do you think Balu is right? Yes/No. Validate your claim with relevant examples. [6]

- b) Differentiate between TCP and UDP. [4]

PTO.

Q5) a) I have a subnet mask 255.255.255.248 set up in my machine with IP 10.5.5.20? What IP address should I ping to, so that I get response from all machines on my LAN subnet. [5]

- b) Explain distance vector routing algorithm. What are advantages and disadvantages of Distance vector routing. [5]

OR

Q6) a) Describe the importance and working of ARP protocol? What is ARP cache? [5]

- b) An organization is granted the block 202.16.170.0/24. The administrator wants to create 24 subnets. [5]
- i) Find the subnet mask.
 - ii) Find the number of addresses in each subnet.
 - iii) Find the first and last addresses in subnet 1.
 - iv) Find the first and last addresses in subnet 24.

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