

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]**

*P.T.O.*

- 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.

✓ ✓ ✓