APR - 15 / Engg. - 143
T.E. (Computer Engg.) (In Sem - Semester - II)
COMPUTER NETWORKS
(2012 Pattern)

Time : 1 Hour

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 the difference between persistent & non persistent HTTP? Also explain HTTP message format. [6]
     b) Compare IMAP and POP3. [4]

     OR

Q2) a) Compare file transfer using SMTP & HTTP. [7]
     b) State which transport layer protocol is used by following application layer protocol.
        HTTP, FTP, DHCP, DNS, SMTP, TELNET. [3]

Q3) a) What is QOS? Explain various parameters for QOS in a network. [6]
     b) List TCP congestion control approaches. Explain any one. [4]

     OR

Q4) a) Explain in detail RTP with packet header format. [7]
     b) Draw TCP Header format. [3]

P.T.O.
**Q5**

a) Explain Distance Vector Routing. What are the advantage & disadvantage of DV Routing? [6]

b) Draw & explain IPv4 Header. [4]

**OR**

**Q6**

a) Divide the network 220.125.5.192/26 into 8 subnetworks. How many hosts can be connected in each network? Show their IP range, network address and broadcast address. [6]

b) Describe in short the importance & working of following commands. [4]

   i) Ping  
   ii) IP config

   iii) Traceroute  
   iv) Netstat

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