

Total No. of Questions : 10]

SEAT No. :

**P1509**

**[5460]-188**

[Total No. of Pages : 2

**T.E. (Computer Engineering)**

**COMPUTER NETWORKS**

**(2012 Course) (Semester - II) (End Semester)**

*Time : 2½ Hours]*

*[Max. Marks : 70*

*Instructions to the candidates:*

- 1) *Figures to the right indicate full marks.*
- 2) *Draw neat diagrams wherever necessary.*
- 3) *Assume suitable data, if necessary.*

**Q1) a)** What is difference between persistent and non persistent HTTP? Also explain HTTP message format. **[6]**

b) Explain working of DHCP. **[4]**

OR

**Q2) a)** What is DNS? Explain its various resource records with one example. **[6]**

b) Write short note on MIME. **[4]**

**Q3) a)** What is silly syndrome problem? Suggest two solutions to overcome the problem. **[6]**

b) Explain Three- way handshake in TCP. **[4]**

OR

**Q4) a)** Explain various parameters for QoS (Quality of Service) in a network. **[4]**

b) Distinguish between IPv6 and IPv4 with respect to header format. **[6]**

**Q5) a)** Explain the working of DCF and PCF? **[6]**

b) Explain 802.11 wireless LAN frame format. **[6]**

c) Explain Bluetooth Architecture (Piconet and Scatternet) **[4]**

OR

**Q6) a)** Explain Bluetooth(802.15) Protocol Stack. **[6]**

b) What is Hidden station and Expose station problem in WLAN. **[6]**

c) Explain CSMA/CA. **[4]**

**P.T.O.**

- Q7)** a) Explain VoIP Architecture? [8]  
b) Explain concept of Delay tolerant network. [8]

OR

- Q8)** a) What is VoIP? Explain SIP (Session Initiation Protocol) in detail. [10]  
b) Write a short note on Vehicular network. [6]

- Q9)** a) Explain the concept of virtualization. [8]  
b) Explain Architecture of ATM network. [6]  
c) Write short note on GMPLS. [4]

OR

- Q10)**a) Describe Client Layers of the Optical Layer. [8]  
b) Explain ATM layers. [6]  
c) Explain Propagation of Signals in Optical Fiber. [4]

