

Total No. of Questions : 8]

SEAT No. :

P2612

[5153]-588

[Total No. of Pages : 2

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

(2012 Pattern) (Semester - II) (End Sem.) (310251)

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) *Neat Diagrams must be drawn wherever necessary.*
- 2) *Assume Suitable data, if necessary.*
- 3) *Draw neat diagrams whenever necessary.*

Q1) a) Explain DHCP in detail. [8]

b) What is the difference between persistent and non persistent HTTP?
Explain HTTP message format. [8]

c) Differentiate between TCP and UDP protocol. [4]

OR

Q2) a) Explain Link State Routing with example. [8]

b) Why TCP need four different timers? Explain function of each. [8]

c) Differentiate between IPv4 and IPv6. [4]

Q3) a) Explain MAC Sublayer: Distributed Coordination Function (DCF) & Point Coordination Function (PCF) of 802.11 standard. [8]

b) Write short note on following (any 2): [8]

i) WML Script

ii) WAP 2.0

iii) SONET Frame Format.

OR

P.T.O.

- Q4)** a) Explain WLAN Architecture. [8]
b) Draw and explain diagram of Frequency Hopping Spread Spectrum (FHSS) and Direct Sequence Spread Spectrum (DSSS). [8]

- Q5)** a) Explain DTN architecture in wired network. [8]
b) What are the components of VANET? What do you mean by dedicated short range communication in VANET? [8]

OR

- Q6)** a) Draw and explain VOIP network architecture. [8]
b) Explain an application of VOIP in real environment. [8]

- Q7)** a) What is the role of client layers in optical fiber? [8]
b) Write short note on (any 2): [10]
i) Role of Ethernet in Optical Network
ii) GMPLS
iii) Virtualization and its types

OR

- Q8)** a) Explain ATM architecture with diagram. [8]
b) Explain working of SDN in detail with diagram. [10]

