

Total No. of Questions : 8]

PA-1444

SEAT No. :

[Total No. of Pages : 2

[5926]-60

T.E. (Computer Engineering)
COMPUTER NETWORKS AND SECURITY
(2019 Pattern) (Semester-I) (310244)

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) Attempt Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Figures to the right side indicate full marks.
- 4) Assume suitable data, if necessary.

- Q1)** a) Explain Path vector routing. [6]
b) Give short note on:
 i) Mobile IP
 ii) MPLS
c) 192.168.5.131/26 for given address find out the [6]
 i) Subnet mask?
 ii) What is first is first ip address for given series?
 iii) What is last ip address for given series?
 OR
- Q2)** a) Draw and explain Header format of IPV4. [6]
b) Give short note on OSPF. [6]
c) List and explain functions of Network Layer. [6]
- Q3)** a) Give the difference between TCP and UDP. [6]
b) Explain RTP protocol in detail. [6]
c) 06 32 000D 001C E2 17 using this UDP hexadecimal dump find out [6]
 i) Source port no
 ii) Destination port no
 iii) Total length of user datagram.
 OR
- Q4)** a) Explain SCTP protocol in detail. [6]
b) List and explain transport layer services. [6]
c) What is socket? What are different types of socket? Explain socket functions used in connection oriented services with diagram. [6]

P.T.O.

- Q5)** a) What is DHCP? Explain DHCP working with client state diagram. [9]
b) Write short notes on FTP and MIME. [8]

OR

- Q6)** a) What is HTTP? Explain HTTP request and reply messages. [9]
b) Write short notes on TELNET and Webmail. [8]

- Q7)** a) Explain II Sec in detail. [6]
b) Differentiate between Symmetric and Asymmetric Key Cryptography. [6]
c) Give short note on Firewalls. [5]

OR

- Q8)** a) Explain model for network security. [6]
b) Explain SSL in detail. [6]
c) Explain Types of Network Attacks [5]