

Total No. of Questions : 8]

SEAT No. :

PD4244

[Total No. of Pages : 2

[6403]-38

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

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) Answer 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 whenever necessary.
- 3) Figures to the right indicate full marks.
- 4) Assume suitable data if necessary.

Q1) a) Give short note on **[6]**

- i) ICMP
- ii) IGMP

b) Explain Link state routing. **[6]**

c) 192.168.5.51 / 27 for given address find out the. **[6]**

- i) Subnet mask?
- ii) What is first ip address for given series?
- iii) What is last ip address for given series?

OR

Q2) a) Give short note on **[6]**

- i) ARP
- ii) RARP

b) Explain Distance vector routing. **[6]**

c) Differentiate between Circuit Switching, Message Switching and Packet Switching. **[6]**

Q3) a) Draw and explain UDP header format. **[6]**

b) What is Socket? 'What are different types of socket? Explain socket functions used in connection oriented services with diagram. **[6]**

c) Explain SCTP protocol in detail. **[6]**

OR

Q4) a) Draw and explain TCP header format. **[6]**

b) List and explain transport layer services. **[6]**

c) e2 a7 00 0D 00 20 74 9e 0e ff 00 00 00 01 00 00 00 using this UDP hexadecimal dump find out in decimal numbers **[6]**

- i) Source port no.,
- ii) Destination port no.,
- iii) Total length of user datagram

P.T.O.

- Q5)** a) What is SNMP? Explain SNMP working. [9]
b) What is HTTP? Explain HTTP request and reply messages. [8]

OR

- Q6)** a) What is DNS? Explain DNS working. [9]
b) Write short notes on FTP and TELNET. [8]

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

OR

- Q8)** a) Draw and explain ITU-T X.800 Security Architecture for OSI. [6]
b) Give short note on HTTPS. [6]
c) Give short note on IDS. [5]

