

Total No. of Questions : 8]

SEAT No. [REDACTED]

PC-1721

[Total No. of Pages : 2

[6353]-38

T.E. (Computer Engineering)
COMPUTER NETWORKS AND SECURITY
(2019 Pattern) (Semester - I) (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 wherever necessary.
- 3) Figures to the right indicate full marks.
- 4) Assume suitable data, if necessary.

- Q1)** a) Give short note on i) ARP ii) RARP [6]
b) Explain Distance vector routing [6]
c) Differentiate between Circuit Switching, Message Switching and Packet Switching. [6]

OR

- Q2)** a) Give short note on i) ICMP ii) IGMP [6]
b) Explain Link state routing. [6]
c) 192.168.5.51/27 for given address find out the i) subnet mask?, ii) what is first ip address for given series?, iii) what is last ip address for given series? [6]

- Q3)** 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 i) Source port no., ii) Destination port no., iii) Total length of user datagram. [6]

OR

- Q4)** 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]

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Q5) a) What is DNS? Explain DNS working. [9]

b) Write short notes on FTP and TELNET. [8]

OR

Q6) a) What is SNMP? Explain SNMP working. [9]

b) What is HTTP? Explain HTTP request and reply messages. [8]

Q7) 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]

OR

Q8) a) Differentiate between Symmetric and Asymmetric Key Cryptography. [6]

b) Explain SSL in detail. [6]

c) Give short note on Firewalls. [5]