

Total No. of Questions : 8]

SEAT No. :

[Total No. of Pages : 2

P317

[6003] - 397

T.E. (E&TC)

COMPUTER NETWORK

(2019 Pattern) (Semester - I) (Elective - I) (304185)

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, and Q.7 or Q8.
- 2) Figure to the right indicate full marks.
- 3) Assume suitable data if necessary.
- 4) Use of calculator is allowed.

- Q1)** a) Draw IPV4 datagram format and Discuss in details. [6]
b) Compare circuit vs packet switching [4]
c) What are the network layer services? Explain in brief Network layer services. [6]

OR

- Q2)** a) Discuss the Transition from IPV4 to IPV6. [6]
b) Compare IPV4 and IPV6 network addresses. [4]
c) For a network address 192. 168. 10.0 and subnet Mark 255. 255. 255. 224, Then calculate. [6]
i) Number of subnet and Number of host.
ii) Valid subnet.

- Q3)** a) What is routing? What are the Types of routing? What are the characteristics of routing algorithm. [8]
b) Comparision between Intra and Interdomain routing. [4]
c) What is the use of OSPF? Discuss OSPE. [6]

OR

- Q4)** a) Describe in brief the distance vector routing algorithm with diagram. [8]
b) Discuss direct VS Indirect delivery. [4]
c) Discuss Link state routing algorithm. [6]

P.T.O.

- Q5)** a) Discuss process to process delivery in Transport layer with suitable diagram. [6]
b) Explain stream control Transmission protocol. [6]
c) Discuss the TCP connection establishment using three way handshaking. [6]

OR

- Q6)** a) Discuss the TCP Termination using three-way handshaking in TCP Protocol. [6]
b) Discuss Leaky Bucket algorithm. [6]
c) Discuss the scheduling Technique to Improve the Quality of Services (QoS). [6]
- Q7)** a) Explain how electronic mail system work? Explain basic function in Electronic mail. [6]
b) Explain how DNS server work. [6]
c) Explain HTML programming and related TAGS in brief. [6]

OR

- Q8)** Write short notes (Any three). [18]
a) FTP.
b) BOOTP.
c) DHCP.
d) Telnet.

