

Total No. of Questions : 8]

SEAT No. :

PE-2529

[Total No. of Pages : 2

[6583]-55
T.E. (AI & DS)
COMPUTER NETWORKS
(2019 Pattern) (Semester - V) (317521)

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. 7or Q.8.*
- 2) *Figures to the right indicate full marks.*
- 3) *Neat diagram must be drawn wherever necessary.*
- 4) *Assume suitable data if necessary.*

Q1) a) Write a short note on [8]

- i) Network Address Translation
 - ii) Address Resolution Protocol.
- b) Describe ICMP with header format using neat diagram. [9]

OR

Q2) a) Differentiate between circuit switching, Packet switching, message Switching. [9]

- b) Describe in short, the importance and working of ARP Protocol, What is ARP cache. [8]

Q3) a) Draw and Explain TCP Segment Header. [9]

- b) Explain SCTP protocol in detail? [9]

OR

Q4) a) Write short note on sockets and sockets programming [9]

- b) Discuss the Quality-of-Service Parameter in Computer Network. [9]

P.T.O.

- Q5) a)** Explain Simple Network Management Protocol (SNMP). [9]
b) Write short note on DNS. [8]

OR

- Q6) a)** Explain FTP in detail and any four commands of FTP. [9]
b) Differentiated between Persistent and Nonpersistent HTTP? [8]

- Q7) a)** Explain Binary Exponential Backoff Algorithm [9]
b) Differentiate between Pure ALOHA and Slotted ALOHA. [9]

OR

- Q8) a)** Explain the concept of Fast Ethernet and Gigabit Ethernet? [9]
b) Explain the concept of CSMA/CD. [9]

