

Total No. of Questions : 8]

SEAT No. :

P432

[Total No. of Pages : 2

[6003]-535

**T.E. (Artificial Intelligence and Data Science)
COMPUTER NETWORKS
(2019 Pattern) (Semester-I) (317521)**

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) Answer Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8.
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Figures to the right side indicate marks.
- 4) Assume suitable data, if necessary.

- Q1)** a) Differentiate between circuit switching, Packet switching, message Switching. [7]
- b) Write short note on network address translation. [10]

OR

- Q2)** a) Explain the concept of class full and class less addressing. [7]
- b) Compare routing protocols RIP, OSPS, BGP. [6]
- c) Explain the concept of connection less and connection oriented protocol with example. [4]

- Q3)** a) Write short note on sockets and sockets programming [10]
- b) Explain different elements of transport protocol [8]

OR

- Q4)** a) Explain RTP protocol in detail. [8]
- b) Explain TCP handles error control and flow control. [10]

P.T.O.

Q5) a) Write short note on DNS. [7]

b) Explain simple mail transfer protocol. [10]

OR

Q6) a) Explain POP Protocol. [8]

b) Explain various FTP commands. [9]

Q7) a) Explain static and dynamic channel allocation. [9]

b) Differentiate between Pure ALOHA and Slotted ALOHA. [9]

OR

Q8) a) Explain Binary Exponential Back off Algorithm. [10]

b) Compare CSMA and WDMA. [8]