

Total No. of Questions : 8]

SEAT No. :

PA-4018

[Total No. of Pages : 2

[5926]-240

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) Attempt 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) Write short note on Network Address Translation. [10]

b) Explain the concept of Class Full and Class less Addressing. [7]

OR

Q2) a) Compare Static and Dynamic Routing. [7]

b) Describe in short, the importance and working of ARP Protocol, what is ARP cache. [10]

Q3) a) Explain TCP Handles Error control and Flow Control. [10]

b) Explain Different elements of Transport Protocol. [8]

OR

Q4) a) Draw and Explain TCP Segment Header. [8]

b) Discuss the Quality-of-Service Parameter in Computer Network. [10]

Q5) a) Write Short Note on SNMP. [9]

b) Explain in Brief about Telnet [9]

OR

P.T.O.

- Q6)** a) Explain Simple mail Transfer Protocol. [10]  
b) Write Short Note on SNMP. [8]
- Q7)** a) Differentiate between Pure ALOHA and Slotted ALOHA. [7]  
b) Explain Binary Exponential Backoff Algorithm [10]
- OR
- Q8)** a) Explain Various Frame Formats. [8]  
b) Write Short note on IEEE 802.15 and IEEE 802.16. [9]

