Total No. of Questions : 8]

SEAT No. :

P432

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[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 neccessary.***

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]**

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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]**

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