Total No. of Questions : 4]

SEAT No. : ____

P5053

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[6187]-456
T.E. (E & TC Engineering) (Insem)
COMPUTER NETWORKS
(2019 Pattern) (Semester -I) (Elective - I) (304185D)

Time : 1 Hour] ***[Max. Marks : 30***

Instructions to the candidates:

1) ***Answer Q.1 or Q.2, and Q.3 or Q.4.***
2) ***Neat diagrams must be drawn wherever necessary.***
3) ***Figures to the right indicate full marks.***
4) ***Use of Calculator is allowed.***
5) ***Assume suitable data, if necessary.***

Q1) a) Explain TCP/IP protocol suite. **[6]**

b) Compare OSI model and TCP/IP model. **[4]**

c) What are the design issues for the layers? Discuss the design issues for the layers. **[5]**

OR

Q2) a) Draw the OSI model and discuss the function of each layer in OSI model. **[6]**

b) Discuss source to destination delivery with suitable diagram. **[4]**

c) Draw the diagram of relationship of layers and address in TCP/IP and explain the concept of physical and logical addressing. **[5]**

Q3) a) Discuss the character oriented protocol with diagram. **[6]**

b) Explain reservation access in controlled access method. **[4]**

c) A pure ALOHA network transmits 200-bit frames on a shared channel of 200kbps. What is throughput if the system (all together) produces. **[5]**

i) 1000 frames per second.

ii) 500 frames per second.

iii) 250 frames per second.

OR

Q4) a) Explain Go-Back-N automatic repeat request protocol. **[6]**

b) List the functions of data link layers? Define framing, flow control, Error control and Media access control. **[4]**

c) Draw HDLC Frame format and explain each field. **[5]**

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