PC53

[6360]-54

T.E. (E & TC) (Insem)
COMPUTER NETWORKS
(2019 Pattern) (Semester- I) (Elective - I) (304185D)

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

Instructions to the candidates:

1)   *Answer questions Q1 or Q2, Q3 or Q4.*

2)   *Neat diagrams must be drawn wherever necessary.*

3)   *Figures to the right indicate full marks.*

4)   *Assume suitable data if necessary.*

Q1) a)   Draw and explain OSI reference model with functions of its layers.   **[6]**

   b)   Explain different types of network topologies.   **[5]**

   c)   Explain design issues for layers.   **[4]**

OR

Q2) a)   Draw TCP/IP reference model and explain the functions of each layers. **[6]**

   b)   Draw and explain local area network and wide area network.   **[5]**

   c)   Explain different types of addressing in TCP/IP reference model.   **[4]**

Q3) a)   Explain bit stuffing and character stuffing framing method in DLL.   **[5]**

   b)   Explain 1-persistent and non-persistent CSMA protocol.   **[5]**

   c)   Explain reservation and polling methods of controlled access protocol. **[5]**

OR

Q4) a)   Explain CSMA/CD protocol in detail.   **[5]**

   b)   Explain Go-back-N protocol.   **[5]**

   c)   Explain TDMA channelization methods.   **[5]**

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