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]**