

Total No. of Questions : 4]

SEAT No. :

PC-28

[Total No. of Pages : 1

[6360]-28

T.E. (Computer Engineering) (Insem.)
COMPUTER NETWORKS AND SECURITY
(2019 Pattern) (Semester - I) (310244)

Time : 1 Hour]

[Max. Marks : 30]

Instructions to the candidates :

- 1) *Neat diagrams must be drawn whenever necessary.*
- 2) *Figures to the right side indicate full marks.*
- 3) *Assume Suitable data if necessary.*
- 4) *Answer Q.1 or Q.2, Q.3 or Q.4.*

- Q1)** a) Describe Bridge, Gateway and Access point. [6]
b) Explain Frequency Hopping Spread Spectrum. [5]
c) Explain LAN and MAN. [4]

OR

- Q2)** a) Draw Manchester and differential Manchester code for the bit sequence: 01001011. [6]
b) Explain TCP/IP Model. [5]
c) Explain Ring and Mesh topologies. [4]

- Q3)** a) Give brief about HDLC Protocol. [6]
b) Justify answer using CRC for divisor: 1101 dividend: 100100. [5]
c) Give brief about design issues in DLL. [4]

OR

- Q4)** a) What are Framing, Error control and Flow control? [6]
b) Give short note on CSMA/CA, CSMA/CD. [5]
c) Explain Stop and Wait Protocol. [4]
