SEAT No. :

PC-28

[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]**

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