

Total No. of Questions : 4]

SEAT No. :

PE27

[Total No. of Pages : 1

[6579] 328

T.E. (Computer) (Insem)

COMPUTER NETWORKS AND SECURITY

(2019 Pattern) (Semester - I) (310244)

Time : 1 Hour]

[Max. Marks : 30

Instructions to the candidates:

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

- Q1)** a) Draw and explain OSI Model. [6]
b) Explain Direct Sequence Spread Spectrum. [5]
c) Explain : [4]
i) Router
ii) Switch

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) Justify answer using CRC for divisor : 1101 dividend : 100100. [6]
b) Explain IEEE 802.15 frame format. [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]

