P-5028

[6187]-428

T.E. (Insem.) (Computer Engineering)
COMPUTER NETWORKS & 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 side 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 i) Router ii) Switch.   **[4]**

OR

Q2) a) Explain TCP/IP Model.   **[6]**

  b) Draw Manchester and differential Manchester code for the bit sequence:
      01001011.   **[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 is sliding window protocol? How it works?   **[6]**

  b) Explain CSMA in detail.   **[5]**

  c) Explain PPP.   **[4]**

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