Total No. of Questions : 4]

SEAT No. :

P-5028

[Total No. of Pages : 1

[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]**

Total No. of Questions : 4]

SEAT No. :

P8558

[Total No. of Pages : 1

Oct-22/TE/Insem-528
T.E. (Computer Engineering)
COMPUTER NETWORKS AND SECURITY
(2019 Pattern)(Semester-I) (310244)

Time : 1 Hour] *[Max. Marks : 30*

Instructions to the candidates:

1) ***Neat Diagram must be drawn wherever necessary.***
2) ***Figures to the right indicates full marks.***
3) ***Assume Suitable data if necessary.***
4) ***Answer Q1 or Q2, Q3 or Q4.***

Q1) a) Explain LAN, MAN, WAN. **[6]**

b) What are design issues of layers? Explain it. **[5]**

c) Explain **[4]**

i) Router

ii) Switch

OR

Q2) a) Explain Client Server and Peer to Peer Network. **[6]**

b) Draw Manchester and differential Manchester code for the bit sequence: 0100110 **[5]**

c) Explain Star and Bus topologies. **[4]**

Q3) a) Give brief about design issues in DLL. **[6]**

b) Differentiate between Pure and Slotted ALOHA **[5]**

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

OR

Q4) a) Sender Sends code 1001101 justify receiver using Hamming code. **[6]**

b) Explain IEEE 802.3 frame format. **[5]**

c) Explain Stop and Wait Protocol. **[4]**