

Total No. of Questions : 4]

SEAT No. :

[Total No. of Pages : 2

PE119

[6579]-427

T.E. (AI & DS) (Insem)

COMPUTER NETWORK

(2019 Pattern) (Semester-I) (317521)

Time : 1 Hour]

[Max. Marks : 30

Instructions to the candidates:

- 1) *Attempt Q.No.1 or Q.No.2 and Q.No.3 or Q.No.4.*
- 2) *Neat diagrams must be drawn wherever necessary.*
- 3) *Figures to the right indicate full marks.*
- 4) *Assume suitable data, if necessary.*

Q1) a) Define network topology? List its types and Explain any one. **[5]**

b) What is transmission media? Explain Coaxial cable in detail. **[5]**

c) Examines the layers of the TCP/IP Model for following. **[5]**

- i) Determining the best path to route the packet.
- ii) Providing end to end process communication with reliable service.
- iii) Provide access for end user.
- iv) Error control and flow control.
- v) Interface to transmission media.

OR

Q2) a) What are the different network devices? Differentiate between Switch and Router. **[5]**

b) Explain client server network architecture in detail. **[5]**

c) What is addressing? Explain types of addressing. **[5]**

P.T.O.

- Q3)** a) Differentiate between FHSS and DSSS. [5]
- b) Explain frequency division multiplexing. [5]
- c) What is line encoding? Draw Manchester line code and differential Manchester line code for the bit sequence 01001110. [5]

OR

- Q4)** a) Explain functions of physical layer. [5]
- b) Define multiplexing and Differentiate between FDM, WDM & TDM. [5]
- c) Explain frequency hopping spread spectrum. [5]

