

Total No. of Questions : 6]

SEAT No. :

**P4893**

[Total No. of Pages : 1

**B.E./Insem. - 39**  
**B.E. (E&TC)**  
**COMPUTER NETWORKS**  
**(2012 Pattern) (Semester - I)**

*Time :1Hour]*

*[Max. Marks :30*

*Instructions to the candidates:-*

- 1) *Answer Q 1 or Q 2, Q 3 or Q 4, Q 5 or Q 6.*
- 2) *Neat diagrams must be drawn wherever necessary.*
- 3) *Figures to the right side indicate full marks.*
- 4) *Assume suitable data if necessary.*

- Q1)** a) Draw the TCP/IP model. List and Explain functions of transport layer.[6]  
b) Draw and Explain mesh topology with advantages and disadvantages.[4]

OR

- Q2)** a) Explain unguided media in brief. [6]  
b) Compare circuit switching with packet switching. [4]

- Q3)** a) Explain character stuffing framing method. [6]  
b) Explain CSMA/CD protocol. [4]

OR

- Q4)** a) Explain HDLC frame format. [6]  
b) Explain sliding window protocol with the selective repeat. [4]

- Q5)** a) Explain architecture of 802.11 standard. [6]  
b) List the connecting devices with layers of OSI model and explain any one. [4]

OR

- Q6)** a) Explain Bluetooth frame format. [6]  
b) Explain in brief Zigbee protocol with its applications. [4]

