BE/Insem - 552

B.E. (E & TC)

Computer Networks

(2012 Pattern)

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

Instructions to the candidates:

1) *Answer Q.1 or Q.2, Q.3 or Q.4. Q5 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 OSI model. List and explain functions of data link layer   **[6]**

b) List the different types of cables used in networking with their connectors and applications.   **[4]**

OR

Q2) a) Draw and explain data communication system   **[6]**

b) Draw star topology and explain its advantages and disadvantages   **[4]**

Q3) a) Explain bit stuffing framing method.   **[6]**

b) Explain 1 persistent and nonpersistant CSMA protocol.   **[4]**

OR

Q4) a) Explain 3 types of HDLC frames.   **[6]**

b) Explain the Go back N sliding window protocol.   **[4]**

Q5) a) Explain Basic and Extended Service sets in 802.11 standard [6]

b) List the connecting devices and explain any one. [4]

OR

Q6) a) Explain Bluetooth architecture. [6]

b) Explain the concept of virtual LAN` [4]

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