OCT. -16/BE/Insem. - 137
B.E. (E & TC)
COMPUTER NETWORKS
(2012 Course) (Semester - I) (404182)

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

Instructions to the candidates:

1) *Solve Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q6.*

2) *Figures to the right indicate full marks.*

3) *Neat diagrams must be drawn wherever necessary.*

Q1) a) Draw OSI-Reference model. Explain function of Data Link Layer.   **[5]**

b) Draw and explain mesh topology with advantages and disadvantages.
                                                                     [5]

OR

Q2) a) Draw TCP/IP protocol suit. Explain different address.   **[6]**

b) Explain circuit switching.   **[4]**

Q3) a) A slotted ALOHA network transmits 250 bit frame using shared channel of 200 kbps bandwidth. Find the throughput if the system (all stations together) produces 1000 frames per second.   **[5]**

b) Explain GO Bank-N protocol in data link layer.   **[5]**

OR

Q4) a) Explain different frame formats used in HDLC.   **[6]**

b) Explain CSMA/CD protocol. Explain why it is not suitable for wireless communication.   **[4]**

Q5) a) Define and explain basic service set and extended service set. **[6]**

b) Explain DCF MAC sublayer. **[4]**

OR

Q6) a) Draw Bluetooth layer and explain. **[6]**

b) Explain switch and routers. **[4]**

●●●●●