

Total No. of Questions : 6]

SEAT No. :

P82

OCT. -16/BE/Insem. - 137

[Total No. of Pages : 2

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]

P.T.O.

- 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]

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