

Total No. of Questions : 8]

SEAT No. :

P3102

[Total No. of Pages : 2

[5354]-592

B.E. (Electronics) (Semester - II)

COMPUTER NETWORK

(2012 Pattern)

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates :

- 1) Answer question Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8.
- 2) Neat diagrams must be drawn whenever necessary.
- 3) Figures to right side indicate full marks.
- 4) Assume suitable data if necessary.

- Q1)** a) Explain ISO-OSI reference model in detail. [8]
b) Explain and compare LEO/MEO/GEO in details. [6]
c) What is the function of data link layer? Also explain types of framing. [6]

OR

- Q2)** a) Explain TCP/IP reference model in detail. [7]
b) Explain term switching? Compare datagram switching & virtual circuit switching. [7]
c) Explain sliding window protocol in brief. [6]

- Q3)** a) Explain the class full and classless addressing system. [6]
b) What is link state routing? Explain dijkstra's algorithm with example. [6]
c) Explain TCP & UDP protocol in detail. [4]

OR

- Q4)** a) What are the duties of transport layer? List the services provided by transport layer to upper layer. [6]
b) What is congestion? Explain any one congestion control technique. [6]
c) Explain in short ARP & RARP. [4]

P.T.O.

- Q5)** a) Explain data encryption standard. [6]
b) Explain RSA algorithm in brief. [6]
c) Explain Cable Tester. [4]

OR

- Q6)** a) Explain straight through & crossover cable with its applications? [8]
b) What is use of P-Box & S-Box in secret key algorithm? [4]
c) Explain Hash function in detail. [4]

- Q7)** a) What is DNS? Explain need of DNS system. [6]
b) What is FTP? Explain how to access remote file. [6]
c) Explain HTML programming & related tags in brief. [6]

OR

Q8) Write short note on

- a) www. [6]
b) Socket address [6]
c) Ping & Trace route [6]

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