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 jf 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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