

Total No. of Questions : 8]

SEAT No. :

P3103

[Total No. of Pages : 2

[5670]-202

B.E. (E & TC)

COMPUTER NETWORKS

(2012 Pattern)

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Figures to the right indicate full marks.
- 4) Assume suitable data if necessary.

- Q1)** a) Draw TCP/IP reference model and explain functions of transport layer.[7]
- b) Compare & contrast between random access protocol with channelizing protocol. [5]
- c) With the neat diagram explain concept of Bus and Star Backbone Network. [8]

OR

- Q2)** a) Draw TCP/IP protocol suite & explain addresses present at each layer.[7]
- b) Explain Selective Repeat protocol in data link layer. [7]
- c) Explain Basic Service Set and Extended Service Set. [6]

- Q3)** a) Write short note on DHCP. [6]
- b) List the various protocols at network layer giving their significance. [5]
- c) Give general format of ICMP and explain different types of error reporting messages used in ICMP. [7]

OR

- Q4)** a) Explain the concept of delivery and its different types used in network.[8]
- b) Give the classification of commonly used Unicast Routing protocols and explain Distance Vector Routing protocol with an appropriate example. [10]

P.T.O.

- Q5) a)** Explain the TCP Connection management in Client/Server model. [6]
b) Draw the TCP frame format. Explain the use of flags. [10]

OR

- Q6) a)** Compare between TCP and UDP. Under what circumstances you will use them. [8]
b) List the typical QoS parameters in the Transport Layer and explain each one. [8]

OR

- Q7) a)** Explain the basic concept of cryptography and encryption model. [6]
b) Write short on DNS in Internet. [6]
c) What is the purpose of FTP? What are the three FTP transmission modes? Explain. [4]

OR

- Q8) a)** What are the main responsibilities of Application Layer? Explain in brief. [4]
b) Compare symmetric and asymmetric cipher. [6]
c) Explain the security aspects of intranet and internet. [6]

