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]**

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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]**

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