Reg. No. :

Question Paper Code : 42459

B.E./B.Tech. DEGREE EXAMINATION, APRIL/MAY 2018

Sixth Semester

Electronics and Communication Engineering

EC 2352 – COMPUTER NETWORKS

(Common to Seventh Semester Biomedical Engineering)

(Regulations 2008)

(Also common to PTEC 2352 – Computer Networks for B.E. (Part-Time)

Fifth Semester – Electronics and Communication Engineering – Regulations 2009)

Time : Three Hours   Maximum : 100 Marks

Answer ALL questions

PART – A   (10×2=20 Marks)

1. Assume 8 devices are arranged in a mesh topology. How many cables are needed ? How many ports are needed for each device ?

2. What is the significance of twisting in twisted pair cable ?

3. Define HDLC.

4. Define a standard 802.3

5. Differentiate ARP and RARP.

6. Write down the difference between Unicast, Broadcast and Multicast.

7. What is meant by choke packet ?

8. Mention the techniques used to improve QOS in process-to-process delivery.

9. What is a digital signature ?

10. Write down the three types of WWW documents.

PART – B   (5×16=80 Marks)

11. a) i) Explain the TCP/IP reference model with a neat sketch.   (8)
       ii) Write a short notes on cable TV for Data transfer.   (8)

                                  (OR)

    b) i) Briefly discuss about the datagram networks and virtual circuit networks.   (4)
       ii) Explain the OSI reference model with neat diagram.   (12)

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12. a) Describe in detail about the architecture and layers of ATM. (16)

   (OR)

   b) With the help of a neat diagram explain in detail about the stop and wait ARQ protocol in detail. (16)

13. a) i) Explain the working of DHCP. (10)
   ii) Write short note on ICMP and its common messages. (6)

   (OR)

   b) Explain in detail about the different types of routing algorithms. (16)

14. a) i) Explain how connection is established and released in TCP with a neat sketch. (8)
   ii) Explain the features and header formats for UDP. (8)

   (OR)

   b) Explain in detail about congestion control techniques in transport layer. (16)

15. a) Explain in detail about the following :
   i) DNS. (8)
   ii) HTTP. (8)

   (OR)

   b) i) Write a brief note on E-mail. (8)
   ii) What is Cryptography ? Describe symmetric key and public key algorithms in detail. (8)