Sixth Semester B. E. Computer Technology (C. B. S.) Examination

COMPUTER NETWORKS

Time : Three Hours]   [Max. Marks : 80

N. B. :   (1) All questions carry marks as indicated.
         (2) Solve Question 1 OR Question No. 2.
         (3) Solve Question 3 OR Question No. 4.
         (4) Solve Question 5 OR Question No. 6.
         (5) Solve Question 7 OR Question No. 8.
         (6) Solve Question 9 OR Question No. 10.
         (7) Solve Question 11 OR Question No. 12.
         (8) Due credit will be given to neatness and adequate dimensions.
         (9) Illustrate your answers wherever necessary with the help of neat sketches.

1.   (a) Write down about any five Computer Networking Components. Also describe their relation with layer of TCP/IP model.   7

    (b) What do you mean by Line Coding ? What are the advantages of using different Line Codes ? Explain any three line coding techniques with diagram.   7

OR

2.   (a) Explain the working and classifications of fiber optic transmission media.   7

    (b) What is RS 232 ? Explain 9 pin RS 232 diagrammatically.   7

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3.   (a) Explain Hamming code by taking one example.

                                                               7

    (b) Explain the concept of "Go back – N".   7

OR

4.   (a) Explain CSMA / CD protocol.   7

    (b) Discuss any limited contention protocol by giving diagrammatic representation.   7

5.   (a) What do you mean by datagarm ? Explain the working of datagram by taking suitable example.

                                                                7

    (b) Discuss the problems associated with Distance vector routing in detail.   6

OR

6.   (a) Write down about classful and classless IP addressing with examples.   7

    (b) Write down the steps to create 4 LANs by using the concept of subnetting.   4

    (c) List down any four functions of a Router.   2

7.   (a) What is socket ? What are its components ? Explain its use.   7

    (b) Write short notes about TCP.   6

OR

8.   (a) Explain the role and responsibilities of transport layer.   5

(b) Explain the multiplexing and demultiplexing concept of transport layer with suitable diagram.

8

9. (a) Write short notes and working of SNMP. 7

(b) Explain the types and working of firewalls. 6

OR

10. (a) Explain the working of DNS with diagram. 7

(b) Discuss authentication and their ways. 6

11. (a) What is ISDN ? Discuss the types of services provided by ISDN. 6

(b) Explain the concept and working of VLAN.

7

OR

12. (a) Write down frame format of IEEE 802·11 and explain its components. 8

(b) Write down about cellular telephony. 5