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CAVS - N 378 B-14
B.C.A Vth Semester Degree Examination
Computer Science
(Computer Networks)
Paper - BCA-5.2
(New)

Time : 3 Hours Maximum Marks : 80

Section - A

1. Answer **all** questions. Each question carries **2** marks. **(10×2=20)**

   a) What are desired characteristics of data communication.

   b) What is parity check?

   c) What is Modem?

   d) List the different modes of Data transmission

   e) Define terms Amplitude & phase

   f) Define coaxial cable

   g) What is handoff?

   h) What is routing table

   i) What is CSMA/CD

   j) What is DLCI?

Section - B

Answer any **Four** questions. Each question carries **5** marks **(4×5=20)**

2. What is Multiplexing? Explain TDM
3. Explain why data compression is necessary. List its three approaches.
4. Explain different types of Routing approaches
5. What is message Switching? How does it work.
6. Explain the properties of Ethernet.
7. List the elements of Transport protocol? Explain any one element.

Section - C

Answer any **Four** questions. Each question carries **10** marks **(4×10=40)**

8. What is computer Network? What are the important application of computer Network.
9. Explain the role of Rs - 232 C interface in data transmission.
10. Mention the different types of routing algorithms. Explain the shortest path routing algorithm.
11. Explain OSI reference Model with functions of each Layer in brief.
12. What is congestion? Explain leaky bucket algorithm to control congestion.
13. Write a note on the following
    a) Digital signature
    b) Mesh topology
