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(20221) Roll No. ....  
BCA.-V Sem.

**18023**

**B.C.A. Examination, Dec.-2020**

**Computer Networks**

**(BCA-503)**

*Time : Three Hours ] [Maximum Marks : 75*

**Note :** Attempt questions from all Sections  
as per instructions.

**Section-A**

**(Very Short Answer Questions)**

**Note :** Answer all the **five** questions. Each  
question carries **3** marks. Very short  
answer is required.  $3 \times 5 = 15$

1. Enlist the components of data communication.
2. Explain attenuation in a signal.

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3. Four channels, each with a 100-KHz bandwidth, are to be multiplexed together, what is the minimum bandwidth of the link if there is a need for a guard band of 10 KHz between the channels to prevent interference?
4. Differentiate gateways & routers.
5. What is connection-less service provided by the transport layer?

**Section-B**

**(Short Answer Questions)**

**Note :** Attempt any **two** questions out of  
the following **three** questions. Each  
question carries **7½** marks. Short  
answer is required.  $7\frac{1}{2} \times 2 = 15$

6. Explain any **one** of the following:-
  - (a) Ring & star topology.
  - (b) Transmission modes.

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7. Discuss point-to-point protocol (PPP).
8. Explain the functions of presentation layer.

13. How DTE-DCE interface works? Also discuss the essence of modems. 10+5

### Section-C

#### (Detailed Answer Questions)

**Note :** Attempt any **three** questions out of the following **five** questions. Each question carries **15** marks. Answer is required in detail.  $15 \times 3 = 45$

9. Explain the distance vector routing algorithm with an example.
10. Discuss the different guided medias with the uses. <https://www.ccsustudy.com>
11. How circuit switching works in a network, explain in detail.
12. Discuss different protocols at application layers.

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**P.T.O.**

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