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(21223)  
BCA-V Sem.

(Printed Pages 4)  
Roll No. \_\_\_\_\_

**18023**

**B.C.A. Examination, Dec.-2023**

**Computer Networks**

**(BCA-503)**

*Time : Three Hours ]*

*[Maximum Marks : 75*

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

**Section-A**

**(Very Short Answer Type Questions)**

**Note :** Attempt **all** questions. Each question carries **3** marks. Very short answer is required not exceeding 75 words.

1. What do you understand by distributed processing? 3

**P.T.O.**

2. Explain the use of Bridges. 3
3. Write a short note on e-mail. 3
4. Explain various network categories based on size of network. 3
5. Compare Byte-oriented versus bit-oriented protocols. 3

**Section-B**

**(Short Answer Type Questions)**

**Note :** Attempt any **two** questions out of the following three questions. Each question carries 7.5 marks. Short answer is required not exceeding 200 words.

6. What are the approaches used to provide a range of Quality of service (QoS)? 7.5
7. Brief about the importance of simple Network management Protocol (SNMP). 7.5

**18023/2**

8. Describe the function & responsibilities of session layer. 7.5

### Section-C

#### (Long Answer Type Questions)

**Note :** Attempt any **three** questions out of the following five questions. Each question carries 15 marks. Answer is required in detail.

9. Outline the steps involved in building a computer network. Give the detailed description for each step. 15
10. Analyse various error detection techniques in transmission of data. 15
11. What is Topology? Describe various types of topology in computer Network with example. Also give the advantages & disadvantages of each. 15

12. What is congestion control. How congestion control is different from flow control.

Explain various congestion control techniques in computer network. 15

13. Write short notes on any **three** : 15
- (a) ISDN
  - (b) Routers
  - (c) Connection management
  - (d) TDM & FDM
  - (e) DTE-DCE Interface