

Code No.: AI603PC

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**CMR ENGINEERING COLLEGE: : HYDERABAD**  
**UGC AUTONOMOUS**  
**III-B.TECH-II-Semester End Examinations (Regular) - May- 2023**  
**COMPUTER NETWORKS**  
**(Common for CSC, CSM)**

[Time: 3 Hours]

[Max. Marks: 70]

**Note:** This question paper contains two parts A and B.

Part A is compulsory which carries 20 marks. Answer all questions in Part A.

Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

**PART-A**

**(20 Marks)**

1. a) Mention the advantages of Internet. [2M]
- b) What is Guided transmission media? [2M]
- c) Define Framing. [2M]
- d) Write a short note on 1- bit sliding window protocol. [2M]
- e) List the advantages of network layer. [2M]
- f) Define flooding? [2M]
- g) List the elements of transport protocol. [2M]
- h) What is TCP protocol? [2M]
- i) Write a short note on SNMP. [2M]
- j) List out the merits of HTTP? [2M]

**PART-B**

**(50 Marks)**

2. Explain TCP/IP reference model in a detailed manner. [10M]
- OR**
3. Elucidate in detail about Wireless transmission (unguided) and its advantages. [10M]
4. Discuss about sliding window protocols in detail. [10M]
- OR**
5. Distinguish CSMA protocols and collision free protocols. [10M]
6. Explain about Distance Vector routing algorithm with an example. [10M]
- OR**
7. Compare Broadcast and Multicast routing protocols. [10M]
8. Describe the services of Transport layer. [10M]
- OR**
9. Compare and contrast TCP vs UDP protocols [10M]
10. Justify the importance of Application layer. [10M]
- OR**
11. Elaborate the importance of HTTP and WWW in detail. [10M]

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