

Code No.: R22CS501PC

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H.T.No.

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CMR ENGINEERING COLLEGE: : HYDERABAD

UGC AUTONOMOUS

III-B.TECH-I-Semester End Examinations (Supply) - June- 2025

COMPUTER NETWORKS

(Common for CSE, CSD)

[Time: 3 Hours]

[Max. Marks: 60]

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

Part A is compulsory which carries 10 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.

PART-A

(10 Marks)

1. a) What are the advantages of computer networks? [1M]
- b) What is ARP? [1M]
- c) Write any two multiple access protocols. [1M]
- d) Define sliding window protocol. [1M]
- e) Write down the design issue of network layers. [1M]
- f) How to use network layer in internet? [1M]
- g) What is the role of UDP in internet transport protocol? [1M]
- h) What is the primary use of TCP? [1M]
- i) List out basic HTML Tags. [1M]
- j) WWW stands for. [1M]

PART-B

(50 Marks)

2. Discuss about guided transmission media in physical layer with a neat sketch. [10M]
- OR**
3. Compare OSI and TCP/IP reference model. [10M]
4. What are the design issues of Data Link Layer? Explain. [10M]
- OR**
5. List and explain about various multiple access protocols. [10M]
6. Illustrate about hierarchical routing algorithm. [10M]
- OR**
7. Demonstrate how to make routing table using distance vector routing and list down the limitations. [10M]
8. Explain each field in TCP header with neat diagram. [10M]
- OR**
9. Explain the elements of a Transport protocol. [10M]
- 10.a) Write short notes on World Wide Web. [5M]
- b) Identify DNS service maps domain names to IP addresses? Give an example. [5M]
- OR**
11. Elaborate on SNMP with an example. [10M]
