

Code No.: CS503PC

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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) - December- 2024

COMPUTER NETWORKS

(Common for CSE, CSD) (A105)

[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.

PART-A

(20 Marks)

1. a) What are the advantages of MAN? [2M]
- b) Discuss about unguided transmission media. [2M]
- c) Define bridge. List out types of bridges. [2M]
- d) Mark about Hamming code. [2M]
- e) Discuss about various classes of IP addresses. [2M]
- f) Define Tunneling. [2M]
- g) What are the responsibilities of Transport layer? [2M]
- h) Define Flow Control and Buffering in Transport Layer. [2M]
- i) Define FTP. [2M]
- j) What is the significance of DNS? [2M]

PART-B

(50 Marks)

2. Explain the following networks i) ARPANET ii) Internet. [10M]
- OR**
3. What is the significance of layered architecture? Explain the OSI layered architecture with neat sketch. [10M]
4. Explain detail about the carrier sense multiple access protocols. [10M]
- OR**
5. Discuss various types of aloha protocols with neat sketch. [10M]
6. What are the static routing algorithms? Explain the concept of flooding. [10M]
- OR**
7. Distinguish between Leaky Bucket algorithm and Token Bucket algorithm. [10M]
8. Outline the structure of TCP pseudo header and explain each field. [10M]
- OR**
9. Compare the UDP protocol with TCP protocol? List the applications of UDP protocol. [10M]
10. Demonstrate in detail about email. [10M]
- OR**
11. Explain about the formats of HTTP request and Response messages. [10M]
