

Code No.: CS503PC

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CMR ENGINEERING COLLEGE: : HYDERABAD
UGC AUTONOMOUS
III-B.TECH-I-Semester End Examinations (Supply) - June- 2024
COMPUTER NETWORKS
(Common for CSE, CSD)

[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 is Arpanet? [2M]
- b) Outline the advantages of optical fiber over twisted and coaxial cables. [2M]
- c) What are the responsibilities of Data Link Layer? [2M]
- d) What is Byte Stuffing? [2M]
- e) Illustrate the need of Internetwork. [2M]
- f) Define Flow Control. [2M]
- g) What is meant by Flooding? [2M]
- h) What is De-multiplexing? [2M]
- i) What is SMTP? [2M]
- j) What are the Domain Name System responsible for? [2M]

PART-B

(50 Marks)

2. Define computer network. Classify computer networks and explain them in brief. [10M]
- OR
3. Distinguish between OSI and TCP /IP reference models. [10M]
4. Discuss about Error Detection & Error Correction. [10M]
- OR
5. Explain about ALOHA in detail. [10M]
6. With an example, explain the distance vector routing. [10M]
- OR
7. Demonstrate the General principles of Congestion Control. [10M]
8. Illustrate the Scenarios for establishing a connection using a Three- Way Handshake. [10M]
- OR
9. Explain about Process-to-Process delivery in detail. [10M]
10. What is Electronic Mail? Explain about the protocols associated with the Electronic Mail System. [10M]
- OR
11. Explain about HTTP? [10M]
