

Code No.: CS503PC

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CMR ENGINEERING COLLEGE: : HYDERABAD
UGC AUTONOMOUS
III-B.TECH-I-Semester End Examinations (Supply) - May- 2023
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 network hardware? [2M]
- b) Differentiate between internet and intranet. [2M]
- c) Write the functions of data link layer. [2M]
- d) What are the types of class full addressing? [2M]
- e) Define internetwork. [2M]
- f) What is meant by Multicast Routing? [2M]
- g) What are the different services provided by transport layer? [2M]
- h) Differentiate between TCP and UDP. [2M]
- i) List out the functions of Email. [2M]
- j) Define SNMP. [2M]

PART-B

(50 Marks)

2. Explain in detail about OSI reference model with a neat diagram. [10M]
- OR**
3. Discuss about various types of guided transmission media along with their advantages and disadvantages. [10M]
4. Explain Go-Back-N protocol? With an example. [10M]
- OR**
5. Explain 1-persistent, non-persistent and p-persistent methods of CSMA. [10M]
6. Discuss about the techniques to improve QoS in internetworking. [10M]
- OR**
7. Discuss about various congestion control algorithms. [10M]
8. Explain three-way handshaking for connection establishment in TCP. [10M]
- OR**
9. Illustrate the TCP header format With a neat diagram and discuss the relevance of various fields. [10M]
10. How DNS service maps domain names to IP addresses? Explain with example. [10M]
- OR**
11. What are the protocols associated with WWW? Explain in detail. [10M]
