CMR ENGINEERING COLLEGE: : HYDERABAD
UGC AUTONOMOUS
I–M.TECH–II–Semester End Examinations (Supply) – March- 2024
ADVANCED COMPUTER NETWORKS
(CSE)

[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 and may have a, b, c as sub questions.

PART-A   (10 Marks)

1. a) What is Hub and Switch?   [1M]
   b) What device connects a LAN to a WAN?   [1M]
   c) What are the functions of Ethernet?   [1M]
   d) What is the IEEE standard of Wireless Ethernet?   [1M]
   e) Define Multicasting?   [1M]
   f) What do you mean by Autonomous system?   [1M]
   g) Which of the TCP/IP model layers is responsible for breaking down the message into [1M]
      packets?
   h) Why is a client reliant on a server?   [1M]
   i) Define HTTP ?   [1M]
   j) What is P2P File sharing?   [1M]

PART-B   (50 Marks)

2. Explain the Cyclic redundancy check with an example.   [10M]

OR

3. Explain the Multiplexing concept in detail.   [10M]

4. Explain Network–Layer Routing with an example.   [10M]

OR

5. Explain Non-Least-Cost-Path algorithms with an example.   [10M]

6. Give features of IPv6 in the context of advanced communication networks. [10M]

OR

7. Explain Node level multicast algorithm.   [10M]

8. What are the merits and demerits of Client-Server and peer-to-peer paradigms. [10M]

OR

9. Explain about flow control and error control with respect to TCP.   [10M]

10. With a neat sketch explain the UDP header format.   [10M]

OR

11. Explain detail about the Domain Name System.   [10M]

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