Code No.: R22CS58201PC

11.a) Explain P2P File sharing.

b) Write short note on TCP socket programming?

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[5M]

[5M]

CMR ENGINEERING COLLEGE: : HYDERABAD **UGC AUTONOMOUS**

I-M.TECH-II-Semester End Examinations (Regular) - September- 2023 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 (20 Marks) Compare TCP/IP model with OSI model. 1. a) [1M]Define IP address. b) [1M] c) Explain how to route the packets in data gram subnet? [1M]d) Classify various Data-link layer services. [1M] e) Draw IPV4 header format. [1M] f) Define multicast routing algorithm. [1M]What is mean by congestion control. g) [1M] List out Transport layer, Quality of service parameters. h) [1M] i) Write about DNS. [1M] j) Design the architecture of WWW. [1M] (50 Marks) 2.a) Write in detail about TCP/IP model with neat sketch. [7M] Explain about packet delay and packet loss. [3M] OR 3.a) Write short notes on error correction methods, CRC generator and CRC checker. [5M] Explain about packet switching networks [5M] Use IEEE 802.3 and IEEE 802.11 to generalize the differences between wired and wireless 4.a) [5M]LANS Compare Intra-domain and inter-domain routing protocols. [5M] Write about congestion control mechanisms in detail? 5.a) [5M] Draw and explain the infrastructure of wireless networks. [5M] 6.a) Distinguish between IPV4 and IPV6 addressing mechanisms. [5M]Explain in detail about shortest path routing algorithm with example. [5M]OR 7.a) Explain multicasting IP address. [5M] Write the differences between unicast and multicast routing. [5M]8.a) Explain the services provided by transport layer to upper layers. [5M] Explain in detail about congestion control mechanisms in transport layer. [5M] 9.a) Explain about Mobile Transport Protocols. [5M] Compare Client-Server and Peer To Peer communication. b) [5M] 10.a) Summarize the message request and response formats of HTTP. [5M] Explain Electronic Mail architecture and it's services. b) [5M]
