

Max. Marks: 30

Duration: 1hr.15 min.

Class: TY

Semester: V

Branch: COMP

Course Code: UCEC502

Test 1

Name of the Course: Data

Network

Question No.		Max. Marks	*CO Mapped	Bloom's Taxonomy
Q1	Can you apply address aggregation on the following network, if yes justify and solve? 192.1.2.0/25 192.1.2.128/26 192.1.2.192/26	10	CO2	Analysis
Q2	A host with IP address 192.33.43.20 and physical address B2:34:55:10:22:10 has a packet to send to another host with IP address 172.33.43.25 and physical address A4:6E:F4:59:83: AB (which is unknown to the first host). The two hosts are on the different Ethernet network connected through Router R1(assume suitable data for router R1). Show the ARP request and reply packets encapsulated in Ethernet frames. Also draw the network topology for the same.	10	CO2	Application
Q3	Explain Open loop and Closed Loop Congestion control techniques in detail.	10	CO1 & CO2	Comprehension