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Sixth Semester B. Tech Degree Course Sessional Test II April 2020

CS306 COMPUTER NETWORKS

Computer Science and Engineering

Time: - 2 Hours

Maximum Marks: 50

PART A (Answer all questions)

Q.No	Questions	Marks	CO	BTL
1	What is QoS ? Explain the techniques for achieving good QoS.	5	CO4	2
2	A computer on a 10 Mbps network is regulated by a token bucket. The token bucket is filled at a rate of 2 Mbps. It is initially filled to capacity with 16 megabits. What is the maximum duration for which the computer can transmit at the full 10 Mbps?	5	CO4	3
3	Subnet the class C IP address 195.1.1.0, so that you have 10 subnets each with a maximum 12 hosts. Give the subnet mask also.	5	CO4	3
4	How BOOTP performs when the client and the server are on different networks.	5	CO5	2
5	Draw and explain the ICMP message formats	5	CO5	3
6	How the routing updates are communicated among different autonomous systems ? Explain the features of the Exterior Gateway Routing Protocol BGP in detail.	5	CO5	2
7	List the transport layer functions. Differentiate between TCP and UDP.	5	CO6	2
8	Explain the name-address resolution techniques used in DNS .	5	CO6	2
9	Explain the three different phases in a TCP transmission with the help of diagrams.	5	CO6	2
10	What is the role of SNMP ? Explain its components.	5	CO6	2

All the Best

