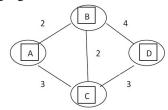
3rd Internal Examination of MSc. (CS/IT) 2nd Semester 2023 Paper: Data Communication and Computer Networks Paper Code: CSC2016/INF2016

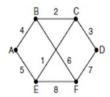
Full Marks: 25

Time: One and half hour

1. For the following network, calculate the routing table for router A using distance vector routing algorithm.



2. Describe the features of Link State routing algorithm. Create Link State packet for nodes A, B, C, D, E and F of the following network- 2+2=4



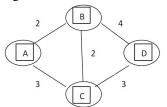
3.	Write the difference between Leaky bucket and Token bucket	
	algorithm.	2
4.	Describe IPV ₄ header format.	4
5.	Calculate number of networks and hosts available for Class B of IP	
	classes.	1
6.	Define the following terms in terms of TCP protocol-	3
	Byte number, Sequence number, Acknowledgement number	
7.	Describe the TCP connection establishment process.	3
8.	What are ARP and RARP?	3
9.	Write about Ethernet Terminology.	1

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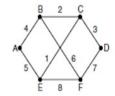
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