

LAB FINAL

Course Title: Computer Networks

Course Code: CIS 212

Section: Batch 18-D

Total Mark: 40

(a)	<p>A company has two branches: Branch A and Branch B. Each branch has its own separate local network named 193.168.1.0 and 193.168.2.0</p> <p>The company requires that the two branches be connected through routers, and routing between them must be set up using RIP version 2. Additionally, each branch must use DHCP configured on their router to automatically assign IP addresses to all end devices.</p> <p>Design the network configuring RIP version 2 for dynamic routing between the branches, and set up DHCP pools for automatic IP address assignment at each branch.</p>	15+15
(b)	Implement VLAN using two different department named CIS and CSE.	10

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(a)	<p>Implement a network using OSPF (Open Shortest Path First) to connect six different networks with the following network addresses:</p> <ul style="list-style-type: none">• 193.168.10.0/24• 193.168.20.0/24• 193.168.30.0/24• 193.168.40.0/24• 193.168.50.0/24• 193.168.60.0/24 <p>Additionally, configure DHCP in one router so that end devices connected to the router automatically receive their IP addresses.</p> <p>The default gateway for each device should be the corresponding router interface IP in that network.</p>	(15+15)
(b)	<p>Implement VLAN using three different department named CIS, CSE and SWE.</p>	10