

# LAB FINAL

**Course Title: Computer Networks**

**Course Code: CIS 212**

**Section: Batch 18-D**

**Total Mark: 40**

(a)	<p>A company has two branches: <b>Branch A</b> and <b>Branch B</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 <b>RIP version 2</b>.</p> <p>Additionally, each branch must use <b>DHCP</b> configured on their router to automatically assign IP addresses to all end devices.</p> <p>Design the network configuring <b>RIP version 2</b> for dynamic routing between the branches, and set up <b>DHCP pools</b> 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 <b>OSPF</b> (Open Shortest Path First) to connect six different networks with the following network addresses:</p> <ul style="list-style-type: none"><li>• 193.168.10.0/24</li><li>• 193.168.20.0/24</li><li>• 193.168.30.0/24</li><li>• 193.168.40.0/24</li><li>• 193.168.50.0/24</li><li>• 193.168.60.0/24</li></ul> <p>Additionally, configure <b>DHCP</b> in one router so that end devices connected to the router automatically receive their <b>IP</b> addresses.</p> <p>The <b>default gateway</b> 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