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Daffodil International University
Faculty of Science and Information Technology (FSIT)
Department of CIS
Lab Final, Fall-2024

Course Title: *Computer Network Lab* **Course Code:** CIS211L
Time: 40 minutes **Total Marks:** *40*

STARLINK operates through four distinct departments: Engineering, Management, Accounting, and Human Resources. Each department comprises 100 employees, including a Departmental Head, a Coordination Officer, and supporting staff. These employees frequently collaborate by sharing files and require the capability to print documents remotely. The network should also simulate web services for hosting the company website and FTP services for file sharing between departments. Based on the above scenario, Solve the following questions:

1. Establish a network for the administrative department by connecting 4 PCs. Assign IP addresses manually to each PC and simulate the connectivity to ensure proper communication between the devices. Also run the 'ping' command for the devices. ***[10]***

2. *Establish a wireless network connection in the office for connecting devices like laptop and smartphone.* **[10]**

3. *Design a topology for the development team office and assign ip addresses dynamically. (At least 4 PCs)* **[10]**

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4. Create a txt file in the Notepad and write your "Name" then share the file to your nearby PC through IP file sharing. **[10]**

192.168.227.28