CSC8360 S2 2022 PRACTICE 7

**Wireless LAN Design** Due Date: xx/xx/2022

# Objective

The objective of these practice questions is to gain a basic understanding of the principles associated with the planning and design wireless networks.

**Practice Question #1:**

What are the main planning considerations to be taken into account when deploying Wireless LAN in a home environment and in an office environment.

**Practice Question #2:**

What are the main factors for considering wireless network over a wireline (cabled) network.

**Practice Question #3:**

Describe the requirements to be considered when planning to securely deploy a wireless network to cover a wide public area.

**Practice Question #4:**

Go to the [USQ Student Virtual Machines Portal](https://usqstudydesk.usq.edu.au/m2/course/view.php?id=21784) and read the instructions on using USQ Virtual Machines (VM), then “[register](https://labs.azure.com/register/cqbkmkt5)” via Azure Labs portal to gain access to a VM. Once the VM is up and running, setup up a basic network using [MININET](Documentation%20·%20mininet/mininet%20Wiki%20·%20GitHub) consisting of one (1) switch and three (3) Wi-Fi access points. (eg: $ sudo mn --wifi --topo linear,3).

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