CSC8360 S2 2022 PRACTICE 8

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

# Objective

The objective of these practice questions is to gain a basic understanding of the issues causing wireless networks to degrade or fail and how to trouble-shoot and restore wireless networks to a full working state.

**Practice Question #1:**

What are the main factors that could affect and degrade the performance of Wireless LAN.

**Practice Question #2:**

What are the main signs that the performance of Wi-Fi network is being degraded.

**Practice Question #3:**

Describe the basic steps and list any performance monitoring/diagnostic tools that could be used in checking the uplink/downlink speed of the network.

**Practice Question #4:**

Describe the impact of Radio Frequency (RF) interference on the performance of a Wi-Fi network and what steps can be taken to reduce the risk of reduced performance.

**Practice Question #5:**

Install the [wireshark](https://www.wireshark.org/) tool on your computer, and monitor/capture the Wi-Fi traffic being sent to/from your connected wireless router. Inspect the captured packets and attempt to identify the wireless router you are connected. Once you have identified the wireless router that you are connected to, inspect the particulars of that captured packet (eg; Interface ID, IP protocol, Source and Destination Address, etc).