CSC8360 S2 2022 PRACTICE 4

**Wireless LAN (WLAN)** Due Date: xx/xx/2022

# Objective

The objective of these practice questions is provide an understanding of the general concepts of WLAN and the various mesh, infrastructure mode, bridges, and other wireless modes. Also, this practice question provides an understanding of planning criteria behind when and where to deploy specific wireless network topologies and architecture.

**Practice Question #1:**

Search the internet, locate and review the various standard for Wi-Fi (IEEE 802.11).  List the wireless network speed improvements and the associated IEEE 802.11 standard that helped deliver that improvement.

**Practice Question #2:**

List and describe the most commonly deployed Wireless LAN Topologies.

**Practice Question #3:**

List and describe the various modes of Wireless LANs. Provide scenarios for each of the Wireless LAN modes, and explain the decisions made when considering each of the modes (pros and cons).

**Practice Question #4:**

Describe the criteria which a local area, wide area and global wireless LAN would be each be considered for deployment.

* *Develop prac to expand knowledge of WLAN*
  + *Include diagrams/scenarios*
  + *Topologies*
    - *Hub-Spoke*
    - *Mesh/Semi-Mesh (Resilient)*
    - *Policy Based / Preference Connection (based upon B/W, latency, Channel)*
    - *Channel Allocation (Fixed vs Dynamic)*
    - *SSID (Main vs Guest)*
      * *MININET*
    - *Security Concerns*
    - *Wireless relay (booster, extended range)*
    - *WiFi Range (When is a booster needed)*
    - Wifi Sniffer Application
  + *Provide Answers*