Homework 14

Question 1 **[1 pt]**

A device was discovered to have the IMEI number: 352030111704822.
   a) What is the device model?
   b) Which network bands and technologies does the device support?
   c) What GNSS systems are supported?
   d) Which Wi-Fi frequency band(s) can the device use?

Question 2 **[1 pt]**

The file simple_scan_hw14.pcap contains a capture of some GSM data on two different downlink frequencies. Answer the following questions based on this file.
   a) Assuming the ARFCN for the first cell tower was 978, what is the ARFCN for the second cell tower? **[0.125 pts]**
   b) What is the downlink frequency for both cell towers? **[0.5 pts]**
   c) Who is the network operator for both cell towers? **[0.125 pts]**
   d) What is the LAC and CID for both cell towers? **[0.25 pts]**

Question 3 **[1 pt]**

The file sim_card_scan.json contains the file system information for a SIM card. Answer the following questions based on this file.
   a) What is the subscriber identifier for the cellular network?
   b) Who is the network provider for the SIM card?
   c) What would be the mobile number for the device using this SIM card?
   d) What is the value for the key used in GSM phone call encryptions?

Due Date: Check Moodle for date
Late Submission Deadline: Check Moodle for date (usually 1 week after due date)
Submission Files: A file containing the answers to the questions
Location: Moodle Homework14 link