Technician Class Course: Homework 4

Directions:

1. Read the book pages specified and fill in the answers to the questions below.

2. While reading also highlight the correct answer to each FCC test question and Gordon's keywords (in blue) in the explanation. Do not read the incorrect answers!

3. For your license, please acquire a FCC Registration Number (FRN) from the FCC website. Please read http://www.fcc.gov/help/getting-fcc-registration-number-frn-universal-licensing-system-uls for more information.

FRN: _________________________________


Score 1: _______ Score 2: ________ Score 3: _________

5. Watch the following videos on Youtube:
   http://www.youtube.com/watch?v=2A_h2AjJaMw

   Brief summary: _______________________________________________________________

   http://www.youtube.com/watch?v=8xONZcBJh5A

   Brief summary: _______________________________________________________________

VOLTS & AMPS (Pages 136-150) – part 2

1. The unit of resistance is the ohm, represented by which letter? ________

2. Draw the Ohm’s Law magic circle.____________________________

3. Page 136 make it easy to compute Ohm’s Law, right? _________

4. The unit of power is the watt. Which letter represents power? _____

5. Draw the magic circle, easy as P I E __________________________

6. How many volts in a kilovolt? ______________________________

ANTENNAS (Pages 151-165)

1. What is the relative performance of a handheld’s rubber duck antenna? ________________

2. When communicating through a repeater, keep you antenna straight ________.

3. How long is a ¼ wavelength 2 meter antenna? ___________ inches

4. What do they call a ¼ wave antenna horizontal to the earth? ________

5. What do they call an antenna that beams energy in one general direction? ______________

6. What is the impedance of ham coax cable? __________________________
7. Is an SWR reading 3:1 good or bad _____________________________
8. What type of antenna purposely does not radiate a signal? ________

YOUR SAFETY (Pages 166-177)
1. Voltage above what level is considered dangerous? ______________
2. The green wire in a three wire house plug connects to where? _______
3. What value fuse would you use to replace a blown 5 amp fuse? _______
4. Watch out for this when putting up any antenna? ___________________
5. Make sure your radio station is well _____________________________
6. Wear these when working on the ground with someone up a tower above you __________.
7. What will concentrated radio waves do to the body at microwave frequencies? _________
8. If you touch a transmitting antenna, you could get________________?
9. What is the maximum power level above 30 MHz before you need to conduct a formal RF exposure evaluation? _______________________
10. The greater the transmit, the _____________________ radiation exposure.

GETTING READY FOR THE TEST (Pages 178-187)
1. How many examiners, minimum, comprise an accredited test team? _____
2. Bring identification. Also bring a cash test fee of $ ____
3. Could the test questions be reworded from what is in the book? ____
4. What FCC form will you fill out? ________________________________
5. When can you go on the air after passing the test? _______________
6. Draw a picture of your face when your examiners say you have passed your entry level exam: