## 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 <a href="http://www.fcc.gov/help/getting-fcc-registration-number-frn-universal-licensing-system-uls">http://www.fcc.gov/help/getting-fcc-registration-number-frn-universal-licensing-system-uls</a> for more information.
	FRN:
4.	Go to <a href="http://www.qrz.com/hamtest/">http://www.qrz.com/hamtest/</a> and take three practice Technician tests.
	Score 1: Score 2: Score 3:
5.	Watch the following vidoes on Youtube: <a href="http://www.youtube.com/watch?v=2A_h2AjJaMw">http://www.youtube.com/watch?v=2A_h2AjJaMw</a>
	Brief summary:
	http://www.youtube.com/watch?v=8xONZcBJh5A
	Brief summary:
VOLT	S & AMPS (Pages 136-150) – part 2
l. The unit of resistance is the ohm, represented by which letter?	
2. Drav	w the Ohm's Law magic circle
3. Page	e 136 make it easy to compute Ohm's Law, right?
4. The	unit of power is the watt. Which letter represents power?
5. Drav	w the magic circle, easy as P I E
6. How	many volts in a kilovolt?
ANTE	NNAS (Pages 151-165)
l. Wha	t is the relative performance of a handheld's rubber duck antenna?
2. Whe	en communicating through a repeater, keep you antenna straight
3. How	long is a ¼ wavelength 2 meter antenna? inches
4. Wha	at do they call a $\frac{1}{2}$ wave antenna horizontal to the earth?
5. Wha	t do they call an antenna that beams energy in one general direction?
6. Wha	t 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 examiners say you have passed your entry level examiners.