

Technician Class Course: Homework 3

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. No sample tests yet! Re-read past chapter questions & answers once.
4. Watch the following videos on Youtube:
<http://www.youtube.com/watch?v=yC0u42MnMdM>

Brief summary: _____

http://www.youtube.com/watch?v=1HfvmU_utI8 (up to 5:30)

Brief summary: _____

<http://www.youtube.com/watch?v=RDKUixM9zos> (up to 1:25)

Brief summary: _____

<http://www.youtube.com/watch?v=zYS9kdS56l8>

Brief summary: _____

EMERGENCY! (Pages 86-91)

1. Which traffic has the highest priority? _____
2. Use this to signal an emergency using Morse code? _____
3. Say this on the international worldwide bands in an emergency? _____
4. Say this in an emergency on a 2 meter repeater? _____
5. Do this after you have checked into an emergency net? _____
6. Are tactical call signs allowed in an emergency? _____
7. Radio traffic on behalf of someone other than the two control operators? _____
8. Which organization usually serves Federal government agencies? _____
9. Which emergency group usually serves Red Cross, Salvation Army and National Weather Service?

10. Radio traffic relating to someone's well being? _____

WEAK SIGNALS (Pages 92-98)

1. How far is VHF range? _____
2. When communicating simplex in a big city, should you choose UHF or VHF? _____
3. 6 meter long range excitement may be from radio wave refracting off the _____?
4. What mode do we normally use for weak signal work? _____
5. Do we use lower sideband or upper sideband on VHF and UHF? _____
6. What is that letter-number designator assigned to a geographic location? _____
7. Fun webpage for 6 meter activity? www. _____ .org?

DIGITAL & SPACE (Pages 99-111)

1. What kind of ham station is tied into the internet? _____
2. What does VoIP mean? _____
3. What system allows radio to radio internet linking? _____
4. What system allows your computer to link into the internet? _____
5. You won't need this for a digital radio station? _____
6. What does PSK mean? _____
7. What system allows you to automatically transmit your position over radio? _____
8. Support this organization that supports satellites? _____
9. What class of license to operate through satellites? _____
10. How much power should you run working through a satellite? _____
11. What does LEO stand for? _____
12. International Space Station may be heard on what 2 meter frequency? _____

BANDWIDTH & INTERFERENCE (Pages 112-125)

1. Emission with narrowest bandwidth? _____
2. Typical bandwidth of an FM signal? _____
3. What is being transmitted using NTSC? _____
4. Bandwidth for a single sideband voice signal? _____
5. A break in your cable TV coax could lead to _____?
6. What type of connector is on cable box coax? _____
7. What filter goes on a TV for outside antenna reception? _____

8. What kind of filter goes on a telephone to reduce interference? _____
9. What type of filter goes on the power cable to minimize alternator whistle? _____
10. Use this to help track down noise spurs? _____

VOLTS & AMPS (Pages 126-135) – part 1

1. Electromotive force (EMF), voltage, is represented by what single letter? _____
2. How many volts in a car battery? _____
3. Current in amps is represented by what letter? _____
4. Direct current, out of a battery, flows in just _____ direction.
5. What is a good conductor? _____
6. What is a good insulator? _____