

FCC Novice Exam Question Pool. Subelement 2F.
Circuit Components. 2 Questions.

One (1) question must be from the following:

2F 1.1 C

What is the general relationship between the thickness of a Quartz Crystal and its fundamental operating frequency?

- A. The thickness of a crystal does not affect operating frequency.
- B. Thinner crystals oscillate at lower frequencies.
- C. Thinner crystals oscillate at higher frequencies.
- D. Thicker crystals oscillate at higher frequencies.

2F 1.2 *

What is the schematic symbol for a Quartz Crystal?

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2F 1.3 B

What chief advantage does a crystal controlled transmitter have over one controlled by a Variable Frequency Oscillator?

- A. The crystal controlled transmitter will not produce Key Clicks.
- B. The crystal controlled transmitter has better frequency stability.
- C. The crystal controlled transmitter does not need to be tuned.
- D. The crystal controlled transmitter can operate at a higher power output.

2F 2.1 C

What two internal components of a D'Arsonval Meter interact to cause the indicating needle to move when current flows through the meter?

- A. A diode and a capacitor.
- B. A transformer and a resistor.
- C. A coil of wire and a permanent magnet.
- D. A dipole and a balun.

2F 2.2 D

What does a Voltmeter measure?

- A. Resistance.
- B. Current.
- C. Power.
- D. Voltage.

One (1) question must be from the following:

2F 3.1 *

Draw the schematic diagram of a Triode vacuum tube and label the elements.

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2F 3.2 *

Draw the schematic symbol of a Tetrode vacuum tube and label the elements.

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