

Section 6-8

G4B01 (D)

What item of test equipment contains horizontal and vertical channel amplifiers?

- A. An ohmmeter
- B. A signal generator
- C. An ammeter
- D. An oscilloscope

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G4B02 (D)

Which of the following is an advantage of an oscilloscope versus a digital voltmeter?

- A. An oscilloscope uses less power
- B. Complex impedances can be easily measured
- C. Input impedance is much lower
- D. Complex waveforms can be measured

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G4B03 (A)

Which of the following is the best instrument to use when checking the keying waveform of a CW transmitter?

- A. An oscilloscope
- B. A field strength meter
- C. A sidetone monitor
- D. A wavemeter

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G4B04 (D)

What signal source is connected to the vertical input of an oscilloscope when checking the RF envelope pattern of a transmitted signal?

- A. The local oscillator of the transmitter
- B. An external RF oscillator
- C. The transmitter balanced mixer output
- D. The attenuated RF output of the transmitter

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G4B05 (D)

Why is high input impedance desirable for a voltmeter?

- A. It improves the frequency response
- B. It decreases battery consumption in the meter
- C. It improves the resolution of the readings
- D. It decreases the loading on circuits being measured

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G4B06 (C)

What is an advantage of a digital voltmeter as compared to an analog voltmeter?

- A. Better for measuring computer circuits
- B. Better for RF measurements
- C. Better precision for most uses
- D. Faster response

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G4B07 (B)

What signals are used to conduct a two-tone test?

- A. Two audio signals of the same frequency shifted 90 degrees
- B. Two non-harmonically related audio signals

- C. Two swept frequency tones
- D. Two audio frequency range square wave signals of equal amplitude

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G4B08 (A)

Which of the following instruments may be used to monitor relative RF output when making antenna and transmitter adjustments?

- A. A field strength meter
- B. An antenna noise bridge
- C. A multimeter
- D. A Q meter

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G4B09 (B)

Which of the following can be determined with a field strength meter?

- A. The radiation resistance of an antenna
- B. The radiation pattern of an antenna
- C. The presence and amount of phase distortion of a transmitter
- D. The presence and amount of amplitude distortion of a transmitter

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G4B14 (D)

What is an instance in which the use of an instrument with analog readout may be preferred over an instrument with a digital readout?

- A. When testing logic circuits
- B. When high precision is desired
- C. When measuring the frequency of an oscillator
- D. When adjusting tuned circuits

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G4B15 (A)

What type of transmitter performance does a two-tone test analyze?

- A. Linearity
- B. Percentage of suppression of carrier and undesired sideband for SSB
- C. Percentage of frequency modulation
- D. Percentage of carrier phase shift

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