

ASVAB-SECTION-5^{Q&As}

ASVAB Section Five : Electronic Information

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QUESTION 1

A crystal microphone uses _____.

- A. the piezoelectric effect
- B. the Doppler effect
- C. magnetic wavicles to operate
- D. a permanent magnet for resonance

Correct Answer: A

A crystal microphone relies on the piezoelectric effect, where a pressure on a crystal produces an electric current.

QUESTION 2

What special type of diode is commonly used to regulate voltage?

- A. capacitor
- B. transistor
- C. Zener diode
- D. LED

Correct Answer: C

Zener diodes are available in a variety of voltages.

QUESTION 3

Two 16 ohm speakers are connected in parallel to an amplifier that provides a 32 volt output. The voltage across each speaker is _____.

- A. 2 volts
- B. 16 volts
- C. 64 volts
- D. 32 volts

Correct Answer: D

The voltage across parallel resistors is the same.

QUESTION 4

A semiconductor describes elements that have _____ electrons in their valance shell.

- A. 3
- B. 4
- C. 2
- D. 1

Correct Answer: B

QUESTION 5

The heat effect of current is created _____.

- A. when the pressure of the current in the wire breaks up impurities in the wire, creating heat.
- B. when the current in the wire decays electrons, causing them to move more quickly, creating heat.
- C. when the current overcomes resistance in the wire, creating heat.
- D. The heat effect of current is only theoretical; it has never been proven to exist.

Correct Answer: C

Heat effect occurs when electrical current must overcome the resistance of the wire. Heat effect can be quite obvious or very subtle.

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