



ASVAB-SECTION-5^{Q&As}

ASVAB Section Five : Electronic Information

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QUESTION 1



The symbol above is a/an _____.

- A. resistor
- B. fuse
- C. capacitor
- D. inductor

Correct Answer: B

The symbol is a fuse. Fuses are designed to "blow" (melt) if the current flowing through it exceeds a specified value.

QUESTION 2

When current flows through a wire, the following influences are present _____.

- A. amperes and ohms only
- B. voltage, watts, and ohms only
- C. voltage and amperes only
- D. voltage, ohms, and amperes

Correct Answer: D

Voltage, ohms, and amperes are always present when current flows through a wire.

QUESTION 3

Capacitors connected in parallel _____.



- A. produce less capacitance.
- B. produce more capacitance.
- C. are capable of handling more voltage.
- D. produce a higher WVDC rating.

Correct Answer: B

Capacitors connected in parallel effectively increase the plate area, which allows for more storage of electrons and more capacity or capacitance.

QUESTION 4

A parallel circuit with resistors of 10 ohms, 10 ohms, and 5 ohms has a total resistance of _____.

- A. 10 ohms
- B. 5 ohms
- C. 25 ohms
- D. 2.5 ohms

Correct Answer: D

Total resistance of a parallel circuit can be found two ways: by using the reciprocal formula or by using the product of two resistors divided by the sum of the two resistors divided by the sum of the two and then using it again to obtain the final answer in the case of three in parallel.

In this case the two 10-ohm resistors will reduce to an equivalent of 5 ohms.

This leaves, then, two 5-ohm resistors in parallel, which reduce to 2.5 or half of the value of one.

QUESTION 5

A fuse with a higher-than-required rating used in an electrical circuit _____.

- A. improves safety
- B. increases maintenance
- C. may not work properly
- D. is less expensive

Correct Answer: C

Because fuses are designed to prevent current overload at a specific level, a fuse with a high rating may not work properly for a circuit rated at a lower level.



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