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1. Materials with lots of free electrons are called

- A. conductors
- B. insulators
- C. semiconductors
- D. filters

Answer: Option A

Explanation:

No answer description available for this question. Let us discuss.

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2. The unit of electrical charge is the

- A. coulomb
- B. joule
- C. volt
- D. watt

Answer: Option A

Explanation:

No answer description available for this question. Let us discuss.

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3. Current flows in a circuit when

- A. a switch is opened
- B. a switch is closed
- C. the switch is either open or closed
- D. there is no voltage

Answer: Option B

Explanation:

No answer description available for this question. Let us discuss.

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4. The minimum resistance value for a blue, gray, red, silver resistor is

- A. 612 Ω
- B. 6,120 Ω
- C. 6,800 Ω
- D. 6,460 Ω

Answer: Option B

Explanation:

Because of 10% tolerance(last color silver), this resistance may vary 10% of 6800.

Minimum resistance value = $6800 - 680 = 6120$

Maximum resistance value = $6800 + 680 = 7480$

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5. The maximum resistance value for a brown, red, yellow, gold resistor is

- A. 126,000 Ω
- B. 126,600 Ω
- C. 114,000 Ω
- D. 132,000 Ω

Answer: Option A

6. Which of the following is not a type of energy source?

- A. generator
- B. rheostat
- C. solar cell

D. battery

Answer: Option B

Explanation:

No answer description available for this question. Let us discuss.

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7. When placed close together, two positively charged materials will

A. attract

B. become neutral

C. become negative

D. repel

Answer: Option D

Explanation:

No answer description available for this question. Let us discuss.

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8. The conductance of an 8 ohm resistance is

A. 12.5 mS

B. 8 mS

C. 12 S

D. 125 mS

Answer: Option D

Explanation:

No answer description available for this question. Let us discuss.

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9. Electrons in the outer orbit are called

A. nuclei

B. valences

C. waves

D. shells

Answer: Option B

Explanation:

No answer description available for this question. Let us discuss.

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10. A thermistor is a type of

A. switch

B. resistor

C. battery

D. power supply

Answer: Option B

Explanation: