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Question: 1

Which of the following would be the best title for this passage?

- A. "Insulators and Conductors"
- B. "Conductivity"
- C. "Charged Gases"
- D. "Operation of a Photocopier"

Answer: A

Explanation:

The passage is a comparison of insulators and conductors.

Question: 2

Based on the information in the passage, which of the following is most likely a conductor?

- A. wood
- B. aluminum foil
- C. plastic
- D. sand

Answer: B

Explanation:

In the first paragraph, it states that "almost all metals are excellent conductors."

Question: 3

Which of the following statements about conductors is true?

- A. The electrons in a conductor can behave almost like a gas.
- B. All conductors are pure conductors.
- C. Charges tend to cluster at one end of a conductor.
- D. Gases cannot be conductors.

Answer: A

Explanation:

This idea is advanced in the fourth sentence of the second paragraph.

Question: 4

Ionized plasma is an example of a

- A. liquid conductor.
- B. gaseous conductor. Correct
- C. liquid insulator.
- D. gaseous insulator.

Answer: B

Explanation:

This example is given in the last sentence of the first paragraph.

Question: 5

What is the main purpose of this passage?

- A. To demonstrate why conductors are better than insulators
- B. To amuse the reader
- C. To describe insulators and conductors
- D. To give some examples of insulators and conductors

Answer: C

Explanation:

This is evident from the first sentence, which begins by noting that "Materials may be classified as insulators or conductors." The rest of the passage describes the behavior and uses of these materials.

Question: 6

Name the unique feature of selenium that makes it useful in photocopiers.

- A. Selenium conducts electricity when it is in gas form.
- B. Selenium conducts a charge when light shines on it, but is an insulator in the dark.
- C. Selenium can be fused onto paper with heat.
- D. Selenium creates an effective seal once the ink is on the page.

Answer: B

Explanation:

The third sentence of the third paragraph states that selenium is a photoconductor, which the previous sentence has defined as "a material that is an insulator in the dark, but will conduct a charge when light shines upon it."

Question: 7

Materials that are neither insulators nor conductors are known as

- A. photocopiers.
- B. electronics.
- C. semi-insulators.
- D. semiconductors.

Answer: D

Explanation:

This information is given in the first two sentences of the last paragraph.

Question: 8

What is the primary intention of this passage?

- A. To advocate the construction of more steam power plants
- B. To amuse the reader with a story about steam engines
- C. To explain the origins of the Industrial Revolution
- D. To describe how steam is used to generate power

Answer: D

Explanation:

The passage describes the operation of steam turbines and the use of steam power plants.

Question: 9

Which of the following would be the best location for a steam power plant?

- A. A large pond alongside a major highway
- B. A major city
- C. An isolated lake at high altitude
- D. A swamp near an airport

Answer: A

Explanation:

The fourth sentence of the final paragraph states that steam power plants "usually must be placed near bodies of water." The third sentence of the second paragraph, meanwhile, states that these plants "can be built almost anywhere, which means that they can be positioned strategically to minimize

transportation costs." Therefore, of the given answer choices, a large pond alongside a major highway" would be best.

Question: 10

With regard to steam engines, what does "reciprocating" mean?

- A. The engines require less water.
- B. Steam flows in two different directions
- C. The steam emerges from two different holes.
- D. The engine requires frequent lubrication.

Answer: B

Explanation:

This definition is given in the second sentence of the second paragraph.

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