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Question: 1

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

- A. "The Production of Nuclear Power"
- B. "Nuclear Waste Disposal"
- C. "The Uses of Uranium"
- D. "Reactors and Coolants"

Answer: A

Explanation:

The passage is a general description of the operations in a nuclear reactor, ranging from the required fuel to the use of coolant.

Question: 2

Which of the following statements about the uranium used in nuclear power production is true?

- A. It does not need to be processed before use.
- B. It can be used to produce weapons.
- C. It cannot be purified.
- D. It occurs naturally.

Answer: D

Explanation:

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

Question: 3

Based on the information in the passage, seventeen grams of uranium fuel could produce as much energy as

- A. half a ton of coal.
- B. a ton of coal.
- C. two tons of coal.
- D. three tons of coal.

Answer: C

Explanation:

The second paragraph describes the uranium used to fuel a nuclear reactor and then mentions that, "Each of these [uranium] pellets have a mass of only 8.5 grams, yet can produce as

much energy as a ton of coal!" Therefore, twice this amount of uranium should produce as much energy as a ton of coal.

Question: 4

According to the passage, why does dislodging one neutron in the reactor core result in a chain reaction?

- A. Because the material is radioactive
- B. Because it is packed so tightly
- C. Because uranium is unstable
- D. Because the reactor must be cooled

Answer: B

Explanation:

In the fourth sentence of the third paragraph, it states that, "Because the uranium is packed so tightly within the reactor core, any neutron that is knocked loose from one atom goes on to dislodge other neutrons from atoms."

Question: 5

Out of what metal is the reactor core constructed?

- A. iron
- B. steel
- C. uranium
- D. plutonium

Answer: B

Explanation:

This information is given in the second sentence of the third paragraph.

Question: 6

What is the subject of the passage's final paragraph?

- A. the cooling of the reactor
- B. water
- C. how the reactor works
- D. nuclear meltdowns

Answer: A

Explanation:

The final paragraph discusses the need for coolant, the types of coolant used, and the catastrophic consequences of a lack of coolant.

Question: 7

What is the typical coolant in a nuclear reactor?

- A. water
- B. natural gas
- C. plutonium
- D. liquid sodium

Answer: A

Explanation:

This information is given in the second sentence of the last paragraph.

Question: 8

What would be the best title for this passage?

- A. "Edison-base fuses, type S fuses, circuit breakers, and grounding wires"
- B. "Electrical Safety Devices"
- C. "Deadly Electricity"
- D. "Switches, etc."

Answer: B

Explanation:

The passage discusses the various pieces of equipment used to make electricity safe.

Question: 9

Which of the following is NOT one of the common devices for maintaining electrical safety?

- A. fuse
- B. battery
- C. switch
- D. breaker

Answer: B

Explanation:

The opening paragraph describes the importance of electrical safety and then, in the final sentence, states that "The three most common tools for this purpose are fuses, breakers, and switches."

Question: 10

What is the major problem with the Edison-base fuse?

- A. They are no longer manufactured
- B. They occasionally explode

-
- C.Theyareveryexpensive
D.Everyfusefitsintoeverysocket

Answer: D

Explanation:

The third sentence of the second paragraph refers to this problem, mentioning that it makes it very easy to screw the wrong fuse into the socket. The rest of the second paragraph describes why this can be a dangerous mistake.

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