

20

The passage is written from the perspective of someone who is

- A) actively involved in conducting hibernator research.
- B) a participant in a recent debate in the field of cardiology.
- C) knowledgeable about advances in hibernator research.
- D) an advocate for wildlife preservation.

21

It is reasonable to conclude that the main goal of the scientists conducting the research described in the passage is to

- A) learn how the hibernation patterns of bears and squirrels differ.
- B) determine the role that fat plays in hibernation.
- C) illustrate the important health benefits of exercise for humans.
- D) explore possible ways to prevent human diseases.

22

Which choice provides the best evidence for the answer to the previous question?

- A) Lines 1-5 (“Understanding . . . dystrophy”)
- B) Lines 10-13 (“Fat . . . squirrels”)
- C) Lines 31-35 (“To . . . bears”)
- D) Lines 42-46 (“Once . . . tissues”)

23

What main effect do the quotations by Andrews in lines 10-18 have on the tone of the passage?

- A) They create a bleak tone, focusing on the difficulties hibernators face during the winter.
- B) They create a conversational tone, relating scientific information in everyday language.
- C) They create an ominous tone, foreshadowing the dire results of Andrews’s research.
- D) They create an absurd tone, using images of animals acting as if they were human.

24

As used in line 19, “stores” most nearly means

- A) preservatives.
- B) reserves.
- C) stacks.
- D) shelters.

25

Based on the passage, what is Fröbert’s hypothesis regarding why bears’ arteries do not harden during hibernation?

- A) The bears’ increased plasma cholesterol causes the arteries to be more flexible.
- B) Sluggish circulation pinches off the blood vessels rather than hardening the arteries.
- C) Bears exercise in short, infrequent bursts during hibernation, which staves off hardened arteries.
- D) Bears possess a molecule that protects against hardened arteries.

26

Which choice provides the best evidence for the answer to the previous question?

- A) Lines 19-20 (“Bigger . . . spring”)
- B) Lines 24-27 (“The brown . . . day”)
- C) Lines 69-72 (“Even . . . streaks”)
- D) Lines 73-76 (“It’s . . . well”)

27

What information discussed in paragraph 10 (lines 58-68) is represented by the graph?

- A) The information in lines 58-62 (“Recent . . . reported”)
- B) The information in lines 62-64 (“These . . . hibernation”)
- C) The information in lines 64-65 (“Lolling . . . circulation”)
- D) The information in lines 67-68 (“It’s . . . strokes”)

28

Which statement about the effect of hibernation on the seven bears is best supported by the graph?

- A) Only one of the bears did not experience an appreciable change in its total plasma cholesterol level.
- B) Only one of the bears experienced a significant increase in its total plasma cholesterol level.
- C) All of the bears achieved the desirable plasma cholesterol level for humans.
- D) The bear with the lowest total plasma cholesterol level in its active state had the highest total plasma cholesterol level during hibernation.