

Chapter 5

Knowledge Check: Reading 1

Answer Key

Page 234

16. A

17. A

18. A

19. D

20. B

21. B

Answer Explanations

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16. **The correct answer is A.** If necessary, reread the selection. Clearly, the observer is fascinated by the scene before him. He gives no indication of being frightened (choice B) or repulsed (choice C) and is far too interested to be bored.

17. **The correct answer is A.** The end of the first paragraph states that the Flemish painting was brought over from Holland.

18. **The correct answer is A.** At the beginning of the selection, the game is being played on a level spot with nine pins. At the end of the passage, balls are rolled, presumably at the pins. This indicates that the characters were playing a variety of bowling.

19. **The correct answer is D.** The second paragraph begins "What seemed particularly odd to Rip . . ." Rip must be the observer. All the other choices *could* be true, but we have no confirming evidence in the selection, whereas the selection does tell us that the man's name is Rip.

20. **The correct answer is B.** In the first sentence of the last paragraph, Rip found it "particularly odd" that the men maintained such grave faces while evidently amusing themselves.

21. **The correct answer is B.** This question asks you to identify the main idea, or main point, of the entire passage. This means that the correct answer will be broad enough to cover the entire passage but narrow enough to describe its specific message. It must also describe this specific message accurately. This passage basically provides us with a comparison of two views of energy: the original view, developed 200 years ago, and the current view now held by scientists. Paragraph 1 tells us that the original view, developed by Thomas Young, held that energy was "the ability to do physical work." The last paragraph tells us that the current view, developed by Albert Einstein, is that energy is "the stored potential to be able to complete work." This point is best summarized by the statement provided in choice B.

Chapter 5

Knowledge Check: Reading 2

Answer Key

Page 239

16. A

17. C

18. A

19. C

20. A

21. B

Answer Explanations

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16. **The correct answer is A.** In the final paragraph, the passage states that germ-free mice are “popular for gut flora research because scientists can inoculate the mice with specific microbes and watch what happens.” There are not enough details in the passage to support any of the other choices.

17. **The correct answer is C.** *Intriguing* means something like “arousing curiosity or interest.” The only definition that comes close to this is choice C, *fascinating*.

18. **The correct answer is A.** Support for this answer can be found in the final paragraph, which states “experiments with germ-free mice have yielded intriguing clues about the possible influence of the gut microbiome on behavior and neurodevelopment. However, it is still unclear whether these findings are relevant to humans.” Choice A basically restates this information in different words.

19. **The correct answer is C.** This question is asking you to look for the exception: algae is never mentioned in the passage. While algae can be categorized as a eukaryote, which is mentioned, it is not a component of the gut microbiome indicated by the passage.

20. **The correct answer is A.** The anecdote discusses a historical example of a doctor performing an experiment and finding a connection between mood and the stomach, stating that “Beaumont noticed that St. Martin’s mood seemed to affect how quickly he digested food.” Just after providing the story, the author adds: “These early observations provided the first clues of crosstalk between the brain and the gut.” Therefore, the author explicitly states why they have used this anecdote, which is to set up the idea that doctors have historically noticed a brain-gut connection before diving into more current research on the topic.

21. **The correct answer is B.** This passage focuses largely on gastrointestinal microbiomes and how scientists over the years have investigated the ways that the gut microbiome interacts with the brain. Consequently, the title “Gut Microbiomes and the Human Brain” does the best job of summarizing the main idea of the passage, which is what a good title should do. Choices A and C are not specific enough, and choice D focuses on one small part of the passage (the story of Alexis St. Martin) without addressing the passage as a whole.