



Mysteries in Space

What is the nature of the mysterious material that scientists call dark matter? Is there life in space? Read this book to find out!

What did you learn?

QUESTIONS

1. Our galaxy is called the ...
 - a. Milky Way
 - b. Universe
 - c. Milky Constellation
 - d. Cosmos
2. Most astronomers believe the expansion of the universe started about ...
 - a. 40,000 years ago
 - b. 4,000 years ago
 - c. 14 million years ago
 - d. 14 billion years ago
3. People once thought that dinosaurlike creatures might live on the planet ...
 - a. Mercury
 - b. Venus
 - c. Mars
 - d. Jupiter
4. Something that was designed to seek out signals from civilizations that may exist elsewhere in our galaxy is ...
 - a. The Hubble Telescope Array
 - b. The Allen Telescope Array
 - c. The Alien Telescope Array
 - d. The Extraterrestrial Telescope Array
5. Who wrote the book *Out of the Silent Planet* ?
6. What does SETI stand for?

TRUE OR FALSE?

- | | |
|---|---|
| _____ 1. The galaxies in a cluster can only move as fast as the pull of gravity allows. | _____ 5. Scientists do not think there is much chance that anything lives on any of the solar system's moons. |
| _____ 2. Most astronomers think that hardly any dark matter exists. | _____ 6. Space probes that have orbited Jupiter and Saturn found no evidence of life on either Europa or Titan. |
| _____ 3. Dark energy draws objects closer together. | |
| _____ 4. On Halloween in 1938, there was an invasion from the planet Mars. | |

ANSWERS

- 1. a. Milky Way.** According to section “What Is the Mysterious Dark Side of the Universe?” on page 6, we know that “These stars are all in our own galaxy, the Milky Way, which contains hundreds of billions of stars.” So, the correct answer is A.
- 2. d. 14 billion years ago.** According to section “What Is the Mysterious Dark Side of the Universe?” on page 8, we know that “Most astronomers believe the expansion started about 14 billion years ago, in a cosmic explosion called the ‘big bang.’” So, the correct answer is D.
- 3. b. Venus.** According to section “Is There Life in Space?” on page 12, we know that “People once thought that dinosaurlike creatures might live on the planet Venus.” So, the correct answer is B.
- 4. b. The Allen Telescope Array.** According to section “Is There Life in Space?” on page 17, we know that “The Allen Telescope Array was designed to seek out signals from civilizations that may exist elsewhere in our galaxy.” So, the correct answer is B.
- 5.** According to page 16, C.S. Lewis wrote *Out of the Silent Planet*.
- 6.** According to page 18, SETI stands for Search For Extraterrestrial Intelligence.

TRUE OR FALSE? ANSWERS

- 1. True.** According to section “What Is the Mysterious Dark Side of the Universe?” on page 6, we know that “The galaxies in a cluster can only move as fast as the pull of gravity allows.” So, the correct answer is True.
- 2. False.** According to section “What Is the Mysterious Dark Side of the Universe?” on page 8, we know that “Most astronomers think more dark matter exists than ordinary matter.” So, the correct answer is False.
- 3. False.** According to section “What Is the Mysterious Dark Side of the Universe?” on page 9, we know that “Dark energy counteracts the force of gravity—it pushes objects away from each other rather than attracting them to one another.” So, the correct answer is False.
- 4. False.** According to section “Is There Life in Space?” on page 11, we know that “Of course, no such invasion took place.” So, the correct answer is False.
- 5. True.** According to section “Is There Life in Space?” on page 14, we know that “Scientists do not think there is much chance that anything lives on any of the solar system’s moons either.” So, the correct answer is True.
- 6. True.** According to section “Is There Life in Space?” on page 15, we know that “However, space probes that have orbited Jupiter and Saturn found no evidence of life on either Europa or Titan.” So, the correct answer is True.