



TEXAS TECH UNIVERSITY

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SCI 8B
Science 8, Second Semester
(v.2.0)

To the Student:

After your registration is complete and your proctor has been approved, you may take the Credit by Examination for Science 8B.

ABOUT THE EXAM

The exam will consist of approximately 50 questions. You must make a score of 70 to pass the CBE. You should check with your school district to find out the district requirements for your particular needs. You will have three hours to complete the exam.

The examination will cover the science concepts and processes required of eighth-grade students and is based on the National Science Standards and Texas Essential Knowledge and Skills for this subject. Since questions are not taken from any one source, you can prepare by reviewing any of the state-adopted textbooks that are used at your school. If you do not have a textbook or any other study material available locally, you may contact the Outreach & Distance Education Bookstore. The bookstore carries the textbook used with our Science 8B Distance Education course. The textbook is *Texas Science, Grade 8*, by Glencoe/McGraw-Hill. (2002).

There is also a sample examination included with this letter. The sample exam will give you a model of the types of questions that will be asked on your examination. It is not a duplicate of the actual examination. It is provided to illustrate the format of the exam, not to serve as a review sheet.

For more information about CBE policies, visit <http://www.ode.ttu.edu/takeacbe/> or see your course Policies & Forms Guide.

Good luck on your examination!

Sample Exam Questions

The following questions, although they are not the exact questions on the CBE, will give you an idea of what the questions on the exam will look like. Answer the questions on your own paper, then check your answers with the answer key provided.

Multiple Choice. Circle the letter of the choice that best completes the statement or answers the question.

1. A land use that does *not* cause environmental problems is
 - A. grazing livestock.
 - B. using herbicides.
 - C. setting aside natural preserves.
 - D. cutting trees.
2. Scientists hypothesize that the Sun formed
 - A. less than a billion years ago.
 - B. from a cloud of gas and dust.
 - C. less than a million years ago.
 - D. from a chunk of Jupiter.
3. The order of the inner planets outward from the Sun is
 - A. Mercury, Earth, Venus, and Mars.
 - B. Mercury, Venus, Earth, and Mars.
 - C. Mars, Venus, Earth, and Mercury.
 - D. Earth, Venus, Mars, and Mercury.
4. The greenhouse effect on Earth keeps it warm enough for liquid water to exist. However, on Venus, the greenhouse effect warms the planet to
 - A. 475°C.
 - B. 900°C.
 - C. 90°C.
 - D. 47°C.

continued →

Matching. Match each item with the correct description below.

- | | |
|---|-----------------|
| 5. smallest unit in the body that does cardiac work | A. organ system |
| 6. heart, arteries, veins, and capillaries | B. heart |
| 7. cardiac tissue, muscle tissue, and nerve tissue | C. organism |
| 8. organ systems working together | D. cardiac cell |

Completion. Write the word that best completes each statement.

9. Some _____ are due to environmental influences.

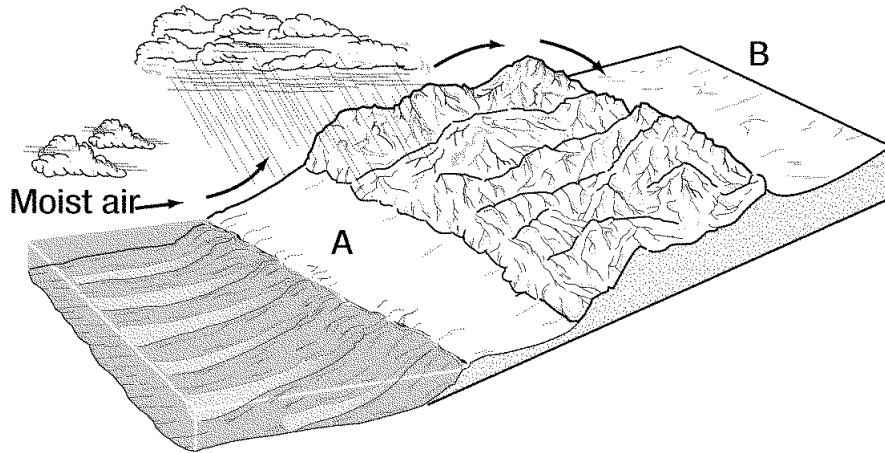


Figure 17-2

10. A(n) _____ is a land feature often found on the B side of the mountain in Figure 17-2.
11. In Figure 17-2, on the side of the mountain away from the wind, air descends, _____, and dries out the land.
12. _____ are organisms that return nutrients to the food chain.

continued →

Short Answer

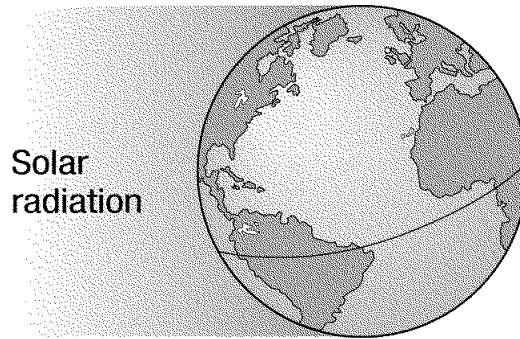


Figure 17-3

13. In Figure 17-3, what area is receiving the most solar radiation?
14. As shown in Figure 17-3, what area experiences the least amount of temperature variation or change during a year?
15. As shown in Figure 17-3, what causes different areas of Earth to receive differing amounts of solar radiation?
16. What does the presence of maria on the Moon tell us about the Moon's history?

True/False. Indicate whether each statement is *true* or *false*.

17. Radiocarbon dating would be useful in dating the age of Earth.
18. Absolute age examines the position of rocks in a sequence.
19. Saturn's density is so low that the entire planet could float in water.
20. The surface of Mars has long channels that may have been caused by flowing water.

Answers to Sample Exam Questions

Multiple Choice

1. C
2. B
3. B
4. A

Matching

5. D
6. A
7. B
8. C

Completion

9. phenotypes
10. desert
11. heats up
12. Decomposers

Short Answer

13. equator
14. equator
15. Earth's tilt on its axis
16. The maria indicate that in the past, the Moon has experienced lava flows that filled up basins.

True/False

17. F
18. F
19. T
20. T