



TEXAS TECH UNIVERSITY

Division of Outreach & Distance Education

Box 42191, Lubbock, TX 79409

(806) 742-7200

FAX (806) 742-7222

www.ode.ttu.edu

SCI 7B
Science 7, 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 7B.

ABOUT THE EXAM

The exam will consist of 53 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 seventh-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 7B Distance Education course. The textbook is *Texas Science, Grade 7*, 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.

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

1. Lymph is made up of white blood cells, water, and dissolved substances.
2. Succession continues until it reaches a pine forest community.
3. Gasoline is not made from natural resources.

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

4. Sweat glands help rid the body of wastes by
 - A. releasing water and salt.
 - B. releasing calcium.
 - C. releasing phosphorus.
 - D. All of the above.
5. The spinal cord is an extension of the
 - A. peripheral nervous system.
 - B. brain stem.
 - C. cerebellum.
 - D. cerebrum.
6. _____ regions are especially vulnerable to erosion because their soils are useful to farmers for only a few years before their nutrients are gone.
 - A. Desert
 - B. Tropical
 - C. Mountain
 - D. Prairie

continued →

Completion. Write the word that best completes each statement.

7. Cells in the epidermis produce the pigment _____.

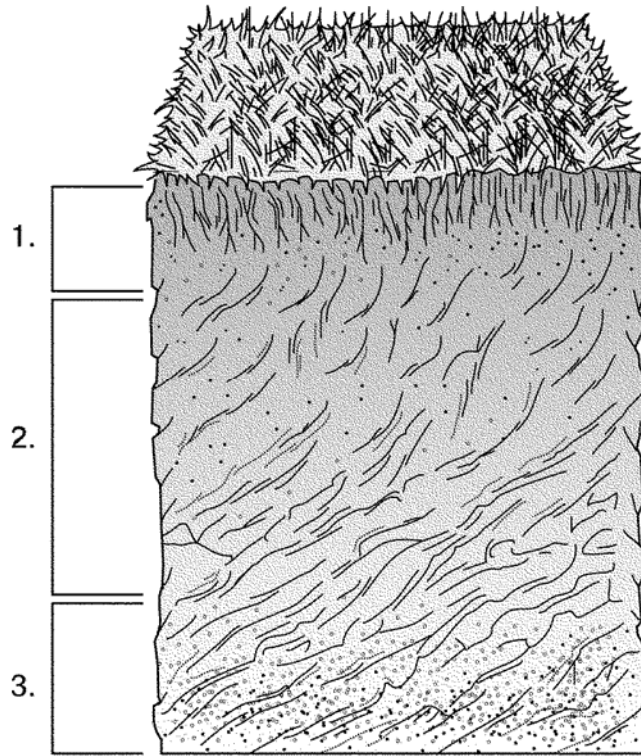


Figure 23-1

8. The most leaching of minerals occurs from the _____ horizon into the _____ horizon.

9. Today continental glaciers cover only ten percent of Earth, mostly in _____ and _____.

continued →

Matching. Match each term with the correct definition below.

10. organisms in an ecosystem that belong to one species
11. organisms that cannot make their own energy-rich particles
12. anything that restricts the number of individuals in a population

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|-----------------------|----------------------|-----------------|
| A. population density | G. biosphere | M. symbiosis |
| B. community | H. limiting factor | N. consumers |
| C. population | I. niche | O. mutualism |
| D. ecosystem | J. producers | P. commensalism |
| E. habitat | K. ecology | Q. parasitism |
| F. food chain | L. carrying capacity | |

Short Answer

13. Is someone who smokes likely to be healthy? Why or why not?
14. What is the function of skeletal muscles?
15. How can you reduce the amount of solid waste you throw away?

Modified True/False. Indicate whether each statement is *true* or *false*. If false, change the underlined word to make the statement true.

16. Homeostasis is the process by which the smooth muscles of the esophagus move in waves to carry food to your stomach.
17. Producers obtain energy by eating other organisms.
18. All green plants are consumers.

Answers to Sample Exam Questions

True/False

1. True
2. False
3. False

Completion

7. melanin
8. A, B
9. Antarctica, Greenland

Multiple Choice

4. A
5. B
6. B

Matching

10. C
11. N
12. H

Short Answer

13. no, because of the lung damage caused by smoking
14. to move body parts
15. You can reduce the amount of solid waste by recycling any glass, paper, metal, or plastic items you use. You can also reduce waste by limiting the number of items you purchase that are made from nonrenewable resources, and reusing as many items as possible.

Modified True/False

16. False, Peristalsis
17. False, Consumers
18. False, producers