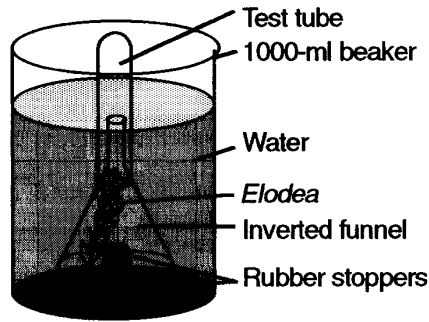

Bioskills Practice Test

Directions:

In order to truly benefit from this practice test you should take this test without your notes and in a quiet area. Once you have answered all the questions to the best of your ability refer to the answer key and check your answers; this will help you to focus on key concepts that you may need to spend more time reviewing before the test.

1. A hypothesis is most valuable in biology when it can be tested by:
 - a. opinions of the majority
 - b. debate among biologists
 - c. observations & experimentation
 - d. review of available data
2. One billion can be correctly displayed as which of the following?
 - a. 10^9
 - b. 10^3
 - c. 10^5
 - d. 10^6
3. Which is the largest among the following?
 - a. 100 nanometers
 - b. $1\mu\text{m}$
 - c. .001cm
 - d. .001 mm
4. Three milliliters of volume is the same as
 - a. 3 mm^3
 - b. 3 cm^3
 - c. 3 cm^2
 - d. 3 m^3
5. Quantitative observations can be recorded using
 - a. numerical information (numbers)
 - b. a control
 - c. a system
 - d. a picture
6. 526 mL is equal to how many Liters?
 - a. 526000 L
 - b. .00526 L
 - c. 0.526 L
 - d. 5.26 L
7. In the term Biology what does the suffix "ology" refer to?
 - a. Life
 - b. Science
 - c. The study of
 - d. None of the above

- 15) Two sets of the laboratory equipment shown in the diagram below were set up. One was exposed to light for 24 hours, while the second was kept in the dark for the same time period.



Gas collected in the test tube of the setup that was exposed to light. No gas collected in the test tube of the setup that was kept in the dark. The experiment was repeated 10 times with the same result. At the end of the experiment, a statement was made that all plants produce gas in the presence of light. This statement is known as a

- A) generalization
B) control
C) hypothesis
D) limitation
- 16) In an experiment, the setup that provides a basis of comparison is known as
- A) a control
B) the problem
C) a variable
D) the conclusion
- 17) A student conducted an original, well-designed experiment, carefully following proper scientific procedure. In order for the conclusions to become generally accepted, the experiment must
- A) support the original hypothesis
B) be repeated to verify the reliability of the data
C) be conducted by a scientist
D) contain several experimental variables
- 18) In a controlled experiment, 20 marigold plants of the same age were grown singly in 20 different pots containing soil of the same composition and moisture level. The pots were divided into two groups of 10. One group was exposed to 8 hours of sunlight each day for 15 days, and the other group was exposed to 8 hours of light from a 75-watt bulb for the same time period. In this investigation, the source of light represents the experimental
- A) problem
B) variable
C) control
D) hypothesis

For the following questions use your prefix, suffix, and root word reference page:

19. What does the prefix *milli* mean?
- a. Thousand
b. Hundredth
c. Million
d. Thousandth

20. What does the term *hydrolysis* mean?

- a. Water
- b. The splitting of water
- c. Splitting
- d. None of the above

21. Sea stars, which are commonly found in tidal pools, are called echinoderms. What is the root word of the term *echinoderm*?

- a. Sea star
- b. skin
- c. prickly
- d. tidal pool

22. Which of the following terms describes a scientist who only studies birds?

- a. Birdologist
- b. Pterodactylogist
- c. Ornithologist
- d. Zoologist

Bioskills Practice Test Answer Key:

1. *C*
2. *A*
3. *C*
4. *B*
5. *A*
6. *C*
7. *C*
8. *B*
9. *C*
10. *A*
11. *C*
12. *D*
13. *D*
14. *C*
15. *A*
16. *A*
17. *B*
18. *B*
19. *D*
20. *B*
21. *B*
22. *C*