

Pre-AP Biology Chapter One Test

Multiple Choice (1 point each)

Identify the choice that best completes the statement or answers the question.

- _____ 1. The work of scientists usually begins with
 - a. testing a hypothesis.
 - b. careful observations.
 - c. creating experiments.
 - d. drawing conclusions.

- _____ 2. Hypotheses may arise from
 - a. prior knowledge.
 - b. logical inferences.
 - c. informed, creative imagination.
 - d. all of the above

- _____ 3. A student suggests that a certain species of bacteria grows better in the light than in the dark. The student has 10 culture plates on which to grow the bacteria. Which of the following would be the best experiment to test this idea?
 - a. Grow 10 plates in the dark.
 - b. Grow 10 plates in the light.
 - c. Grow 5 plates in the dark and 5 plates in the light.
 - d. Grow 10 plates in the light, with extra water.

- _____ 4. The process by which organisms keep their internal conditions fairly constant is called
 - a. homeostasis.
 - b. evolution.
 - c. metabolism.
 - d. photosynthesis.

- _____ 5. What is the term for a group of organisms of one type living in the same place?
 - a. Biosphere
 - b. Ecosystem
 - c. population
 - d. Environment

- _____ 6. In the metric system, the basic unit of length is the
 - a. gram.
 - b. liter.
 - c. yard.
 - d. meter.

- _____ 7. Which of the following variables present in Redi's experiment on spontaneous generation is NOT a controlled variable?
 - a. gauze covering that keeps flies away from meat
 - b. types of jars used
 - c. types of meat used
 - d. temperature at which the jars were stored

- _____ 8. The basic unit of mass in SI is the
 - a. meter.
 - b. ounce.
 - c. liter.
 - d. gram.

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SA Adler



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