

Praxis 5005 Study Guide

Section: 5005 Elementary Education Science Exams • Total Questions: 10 • Format: Verified Q&A

1. Which of the following examples best illustrates sexual reproduction?

- (A) A single bacterium increases in size and divides into two bacteria.
 - (B) A bee transfers pollen between the flowers of different plants of the same species.
 - (C) A small bud forms on a yeast cell, slowly grows, and separates from the original cell.
 - (D) A flatworm's body fragments into different parts, which all become fully formed adults.
-

2. A solar eclipse is most likely to occur when

- (A) the Sun is located between Earth and the Moon
 - (B) the Moon is located between Earth and the Sun
 - (C) Earth is located between the Sun and the Moon
 - (D) Earth, the Sun, and the Moon form a right angle
-

3. A neutral atom always contains an equal number of which of the following?

- (A) Protons and electrons
 - (B) Protons and neutrons
 - (C) Neutrons and electrons
 - (D) Protons and alpha particles
-

4. Which of the following is most important to achieving an accurate result when performing a coliform test on water samples?

- (A) The samples must be boiled.
 - (B) The equipment must be properly sterilized before use.
 - (C) The samples are over 24 hours old.
 - (D) The samples must have been taken from a body of moving water such as a river.
-

5. Which THREE of the following agricultural practices are most likely to have a negative impact on the environment?

- (A) Increasing the amount of fertilizer applied to a field to maximize crop yields
 - (B) Providing a field with excessive amounts of water to maintain ground saturation
 - (C) Applying nonselective herbicides to a field at the end of the growing season to eliminate weeds
 - (D) Planting crops in a field with minimal disturbance of the surface soil to reduce soil erosion
-

6. Which of the following is a true statement about liquid water?

- (A) It is less dense than water vapor.
 - (B) Its particles are moving slower than those of solid water.
 - (C) It can be compressed to a significantly smaller volume.
 - (D) It takes the shape of its container.
-

7. Which of the following types of pathogen is responsible for the common cold?

- (A) Bacterium
 - (B) Virus
 - (C) Fungus
 - (D) Protozoan
-

8. Which of the following is true of the scientific classification of animals that are in the same class?

SIZES OF A CERTAIN DEER POPULATION FROM 1905 TO 1925

- (A) They are in the same family.
 - (B) They are in the same genus.
 - (C) They are in the same kingdom.
 - (D) They are in the same order.
-

9. Which of the following biomes is characterized by an extremely cold climate, low-growing plants, and a layer of permanently frozen subsoil called permafrost?

- (A) Rain forest
 - (B) Tundra
 - (C) Savanna
 - (D) Temperate forest
-

10. Which of the following best explains how a child can inherit a genetic disorder from parents who exhibit no symptoms of the disorder?

- (A)** The disorder is caused by a recessive allele, and each parent carries only a single copy of the allele.
- (B)** The disorder is caused by a dominant allele, and each parent carries at least one copy of the allele.
- (C)** The disorder is caused by multiple genes, and both parents acquired mutations in those genes before the child was born.
- (D)** The disorder is caused by a toxin in the environment, and the parents were exposed to the toxin after the child was born.