

ATI TEAS 7 Science Practice Test

Section: ATI TEAS 7 Science Exams • Total Questions: 10 • Format: Verified Q&A

1. Which of the following structures is present in both prokaryotic and eukaryotic cells?

- (A) Chloroplast
 - (B) Golgi apparatus
 - (C) Cell membrane
 - (D) Endoplasmic reticulum
-

2. Which of the following types of membrane is associated with the skin?

- (A) Peritoneum
 - (B) Synovial
 - (C) Serous
 - (D) Cutaneous
-

3. A student conducts an experiment where they dissolve 1 g each of several substances in 50 mL of water. They have 12 identical plastic cups of water and place 1 g of salt into three of the cups, 1 g of sugar into three of the cups, and 1 g of baking soda into three of the cups. The three remaining cups contain only water. All the cups are put in a freezer, and the temperature of the solution in each cup is recorded every 15 minutes for 4 hours. What question is the student most likely investigating?

- (A) What effect do different concentrations of solute have on the freezing point of water?
 - (B) How does the volume of water affect the rate at which it cools?
 - (C) What effect does cooling have on the solubility of different solutes?
 - (D) How is the cooling rate of water affected by different solutes?
-

4. The following processes causes most of the carbon dioxide from the blood to move into the alveoli?

- (A) Conversion to carbon monoxide
 - (B) Passive transport using carrier proteins
 - (C) Active transport using energy
 - (D) Diffusion down a concentration gradient
-

5. Blockage and inflammation of which of the following structures most often leads to facial acne?

- (A) Lacrimal glands
 - (B) Sebaceous glands
 - (C) Ceruminous glands
 - (D) Sudoriferous glands
-

6. Which of the following ions binds to the troponin complex, initiating muscle contraction?

- (A) Sodium
 - (B) Potassium
 - (C) Phosphorus
 - (D) Calcium
-

7. Which of the following is classified as a noninfectious disease?

- (A) Dengue
 - (B) Psoriasis
 - (C) Chikungunya
 - (D) Brucellosis
-

8. Which of the following are the major parts of the nervous system?

- (A) PNS and Somatic Nervous System
 - (B) Autonomic Nervous System and CNS
 - (C) PNS and CNS
 - (D) Autonomic Nervous System and Somatic Nervous System
-

9. What is the primary outcome of using a catalyst in a chemical reaction?

- (A) A greater amount of heat energy is released during the reaction
 - (B) The yield of the product remains consistent
 - (C) The reaction is accelerated and completed in a shorter timeframe
 - (D) A different product is often formed
-

10. In experimental design, which group can be measured against the experimental group as a standard of comparison?

- (A) Control
 - (B) Responding
 - (C) Manipulated
 - (D) Variable
-