ATI TEAS 7 Science Practice Questions

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

1. When an organism with an unknown genotype is crossed with another organism displaying the recessive trait (aa), the Punnett square shown above illustrates the outcomes. What is the unknown genotype?

(A) a
(B) Aa
(C) AA
(D) aa

2. Which process involves the maturation and release of a representative egg from an ovarian follicle?

(A) Oogenesis
(B) Fertilization
(C) Ovulation
(D) Menstruation

3. The mitochondrial inner membrane carries out the same functions in cellular respiration as the ..... membrane of chloroplasts in photosynthesis. Which of the following correctly completes the sentence above?

(A) Epithelial
(B) Nuclear
(C) Thylakoid
(D) Tonoplast

4. Where is genetic information that describes the characteristics of an organism found?

(A) Ribosomes
(B) Membranes
(C) Cilia
(D) Nuclei

5. Which of the following is the term for the gap between two nerve cells?

(A) A myelin sheath

(B) A dendrite

(C) An axon

(D) A synapse

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6. Mammalian catalase will break down hydrogen peroxide into water and oxygen. One milliliter (mL) of catalase is added to a beaker containing 200 mL of hydrogen peroxide. Which of the following scenarios would cause an increase in the rate of the reaction?

(A) Add a noncompetitive inhibitor to the beaker with the catalase and hydrogen peroxide.

(B) Add a competitive inhibitor to the beaker with the catalase and hydrogen peroxide.

(C) Place the beaker of catalase and hydrogen peroxide in a warm water bath.

(D) Add ice cubes to the reaction beaker.

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7. Which of the following vessels carries oxygenated blood?

(A) Pulmonary vein

(B) Superior vena cava

(C) Pulmonary artery

(D) Inferior vena cava

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8. From which region of the intestine does the vermiform appendix extend, known as which of the following?

(A) Ischium

(B) Cecum

(C) Rectum

(D) Jejunum

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9. Which of the following molecules are found in substantial quantities in both the cell membrane and DNA?

(A) Phosphate groups

(B) Steroids

(C) Lipids

(D) Nitrogenous bases

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10. Which of the following statements describes how bile salts aid during digestion?

(A) Increase the size of starches to aid in digestion

(B) Decrease the size of starches to aid in digestion

(C) Decrease the size of fat droplets to aid in digestion

(D) Increase the size of fat droplets to aid in digestion