

## Science Praxis 5005 Practice Test

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

### 1. Which TWO of the following are characteristics of a scientific theory?

- (A) It is based on evidence.
  - (B) It allows scientists to make predictions.
  - (C) It is the controversial opinion of an individual scientist.
  - (D) It is an untested guess about why something happened.
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### 2. In humans, gametes are produced by which of the following?

- (A) Spleen
  - (B) Thymus
  - (C) Gonads
  - (D) Kidneys
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### 3. Which TWO of the following are examples of structural adaptations?

- (A) Some birds travel in large migratory flocks that may discourage attacks by predators.
  - (B) Some birds have long, curved beaks that they use to extract nectar from flowers.
  - (C) Some birds are active mainly at night, which reduces competition for limited resources.
  - (D) Some birds have webbed feet that allow them to swim and dive efficiently in water.
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### 4. Which of the following are necessary for a generator to produce electricity?

- (A) Magnets and conducting wires
  - (B) Natural gas and pistons
  - (C) Steam and steam pipes
  - (D) Moving water and a water wheel
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### 5. Which of the following is the best response to a student who has doubts about accepting scientific conclusions about the natural world?

- (A) Scientists are experts in their field, and as such their conclusions should not be questioned.
  - (B) Scientific conclusions become accepted only after withstanding many years of debate and experimentation.
  - (C) Scientists are very intelligent, and as a result their conclusions are almost always correct.
  - (D) There is no uncertainty about scientific conclusions.
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**6. Which TWO of the following are true statements about hurricanes?**

- (A) They are typically over 160 kilometers, or 100 miles, in diameter.
  - (B) They form over cold water in Earth's polar regions and may move toward the equator.
  - (C) They develop quickly and usually last for less than 30 minutes.
  - (D) They can have sustained wind speeds that are over 200 kilometers, or 124 miles, per hour.
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**7. Of the following, which is directly related to an object's mass and velocity?**

- (A) Time
  - (B) Density
  - (C) Momentum
  - (D) Displacement
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**8. Doing which of the following to a sample of gas in a container would most likely make the gas molecules move faster?**

- (A) Condensing
  - (B) Cooling
  - (C) Freezing
  - (D) Heating
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**9. When onion cells are placed in a 5% table salt solution, the plasma membranes shrink away from the cell walls. This results from the net movement of**

- (A) water into the onion cells
  - (B) water out of the onion cells
  - (C) salt into the onion cells
  - (D) salt out of the onion cells
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**10. Which of the following is an example of an element?**

- (A) Sand
  - (B) Salt
  - (C) Sulfur
  - (D) Sawdust
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