

## AP Biology Multiple Choice Exam Questions and Answers

A dog is following the scent of a jackrabbit. Which of the following accurately describes how the dog's brain integrates information for smell?

- A) Chemoreceptors in the brain send impulses for smell in the nasal cavity.
- B) Chemoreceptor cells in the nasal cavity sends impulses to the appropriate area of the brain.
- C) Chemoreceptors on epithelial cells of the tongue send hormones to the appropriate area of the brain.
- D) Receptors originating in the nose send action potentials to the motor regions of the brain. - Answer- B) Chemoreceptor cells in the nasal cavity sends impulses to the appropriate area of the brain.

Thrips are insects that feed on rose pollen. Scientists noted that the thrips population increased in the spring and decreased dramatically during the summer. The researchers hypothesized that food abundance was the limiting factor for the population. Which of the following types of data would be most useful for the scientists to collect at regular intervals on a designated test plot of rose plants?

- A) Amount of sunlight (hours/day)
- B) Mean temperature (°C)
- C) Density of rose pollen produced (g/m<sup>2</sup>)
- D) Amount of pollen produced by each flower (g/flower) - Answer- C) Density of rose pollen produced (g/m<sup>2</sup>)

If ATP breakdown (hydrolysis) is inhibited, which of the following types of movement across cell membranes is also inhibited?

- A) Movement of oxygen into a cell
- B) Movement of water through aquaporins
- C) Passage of a solute against its concentration gradient
- D) Facilitated diffusion of a permeable substance - Answer- C) Passage of a solute against its concentration

Undersea landslides can disrupt marine habitats by burying organisms that live on the ocean floor. The graph above shows the size of a population of a certain organism that lives on the ocean floor. The population was affected by a recent landslide at the time

# 8 Ap Bio Exam Answers

**John Michels (Journalist)**



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