

# Veterinary Science: Animal, Nature, and Environmental Facts

Veterinary Science · Answer Key · 20 Questions

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**1. What is the primary function of the cecum in herbivorous animals like horses and rabbits?**

- A) Storage of bile
- B) Absorption of water and fermentation of plant material**
- C) Production of digestive enzymes
- D) Secretion of hydrochloric acid

**2. Which of the following is a zoonotic disease that can be transmitted from birds to humans, often through inhalation of contaminated dust?**

- A) Rabies
- B) Lyme disease
- C) Chlamydia psittaci (Psittacosis)**
- D) Toxoplasmosis

**3. The phenomenon of echolocation, used by bats and dolphins for navigation and hunting, relies on the emission and reception of:**

- A) Infrared radiation
- B) Ultraviolet light
- C) Radio waves
- D) Sound waves**

**4. Which environmental factor is a significant contributor to the decline of amphibian populations worldwide, often leading to skin abnormalities and reduced immune function?**

- A) Increased levels of atmospheric oxygen
- B) Ocean acidification
- C) Ozone depletion
- D) Acid rain and pollution**

**5. The process by which some animals, such as bears and hedgehogs, enter a state of inactivity with lowered body temperature and metabolic rate during winter is called:**

- A) Estivation
- B) Migration
- C) Hibernation**
- D) Diapause

**6. What is the primary role of the spleen in many domestic animals?**

- A) Digesting food
- B) Filtering blood and storing red blood cells**
- C) Producing hormones
- D) Regulating body temperature

**7. A viral disease that affects the respiratory and nervous systems of canids, often spread through saliva, and is highly fatal if untreated, is known as:**

- A) Canine parvovirus
- B) Distemper
- C) Rabies**
- D) Leptospirosis

**8. Which marine mammal is known for its ability to dive to extreme depths and has specialized adaptations to manage high blood pressure and oxygen storage?**

- A) Sea otter
- B) Dolphin
- C) Whale**
- D) Manatee

**9. The symbiotic relationship between legumes and Rhizobium bacteria, crucial for nitrogen fixation in soil, benefits the plant by providing:**

- A) Water
- B) Sunlight
- C) Nitrogen**
- D) Carbon dioxide

**10. What is the term for a disease that affects only a specific species of animal?**

- A) Epizootic
- B) Enzootic
- C) Monospecific disease**
- D) Panzootic

**11. The detoxification of harmful substances in the liver of animals primarily involves which metabolic process?**

- A) Glycolysis
- B) Lipogenesis
- C) Biotransformation**
- D) Gluconeogenesis

**12. Which of the following is an example of a vector-borne disease commonly transmitted to animals (and humans) by ticks?**

- A) Avian influenza
- B) West Nile virus
- C) Lyme disease**
- D) Bovine tuberculosis

**13. The specialized gizzard in birds is an adaptation for:**

- A) Producing digestive enzymes
- B) Grinding food**
- C) Absorbing nutrients
- D) Storing water

**14. What is the primary environmental concern associated with the widespread use of certain pesticides in agriculture that can bioaccumulate in food chains?**

- A) Increased soil fertility
- B) Enhanced biodiversity
- C) Toxicity to non-target organisms**
- D) Reduced greenhouse gas emissions

**15. The ability of some reptiles to shed their skin is called:**

- A) Metamorphosis
- B) Ecdysis**
- C) Autotomy
- D) Brumation

**16. Which organ is responsible for producing insulin, a hormone that regulates blood sugar levels in animals?**

- A) Adrenal gland
- B) Thyroid gland
- C) Pancreas**
- D) Pituitary gland

**17. What is the term for the natural process by which a population of animals increases over time due to successful reproduction?**

- A) Mortality
- B) Natality**
- C) Immigration
- D) Emigration

**18. Which common domestic animal is susceptible to Foot-and-Mouth Disease, a highly contagious viral illness?**

- A) Cat
- B) Dog
- C) Horse
- D) Cattle**

**19. The process of photoperiodism, which influences reproductive cycles and seasonal behaviors in many animals, is a response to changes in:**

- A) Ambient temperature
- B) Food availability
- C) Daylight hours**
- D) Barometric pressure

**20. What is the primary environmental challenge posed by invasive species to native ecosystems?**

- A) Increasing competition for resources and preying on native species**
- B) Improving soil nutrient content
- C) Introducing new genetic diversity
- D) Acting as natural disease buffers