

# High School Zoology Fundamentals

Zoology · Practice Test · 20 Questions

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**1. Which class of vertebrates is characterized by having feathers and laying hard-shelled eggs?**

- A) Mammalia
- B) Reptilia
- C) Aves
- D) Amphibia

**2. What is the primary function of the spiracles found in many insects?**

- A) Respiration
- B) Locomotion
- C) Digestion
- D) Reproduction

**3. Which group of animals is ectothermic, meaning they rely on external heat sources to regulate body temperature?**

- A) Birds
- B) Mammals
- C) Reptiles
- D) Endotherms

**4. What organ is primarily responsible for filtering waste from the blood in vertebrates?**

- A) Liver
- B) Kidney
- C) Heart
- D) Pancreas

**5. Which taxonomic rank is the most specific level of classification below 'Genus'?**

- A) Order
- B) Family
- C) Phylum
- D) Species

**6. In which animal phylum would you classify a jellyfish?**

- A) Chordata
- B) Cnidaria
- C) Arthropoda
- D) Mollusca

**7. What type of animal has a skeleton made entirely of cartilage rather than bone?**

- A) Shark
- B) Goldfish
- C) Trout
- D) Frog

**8. Which process describes the transformation from a larval stage to an adult form in insects?**

- A) Photosynthesis
- B) Metamorphosis
- C) Fermentation
- D) Respiration

**9. What is the hard, protective exoskeleton of an arthropod primarily composed of?**

- A) Calcium carbonate
- B) Chitin
- C) Keratin
- D) Cellulose

**10. Which mammals are unique because they lay eggs instead of giving birth to live young?**

- A) Marsupials
- B) Monotremes
- C) Placentals
- D) Ungulates

**11. What do herbivores primarily consume in their diet?**

- A) Only meat
- B) Only plant matter
- C) Insects and plants
- D) Decaying organic matter

**12. Which system in the body is responsible for transporting oxygen and nutrients to cells?**

- A) Digestive system
- B) Respiratory system
- C) Circulatory system
- D) Nervous system

**13. What is the primary characteristic that defines all members of the phylum Chordata?**

- A) Presence of a shell
- B) Presence of a notochord
- C) Lack of limbs
- D) Ability to fly

**14. Which animal group is considered the most diverse in terms of number of species?**

- A) Mammals
- B) Birds
- C) Insects
- D) Fish

**15. What substance do mammals produce to nourish their young?**

- A) Nectar
- B) Milk
- C) Yolk
- D) Mucus

**16. Which gas do animals typically release as a byproduct of cellular respiration?**

- A) Oxygen
- B) Nitrogen
- C) Carbon dioxide
- D) Hydrogen

**17. Which part of a bird's digestive system is used for grinding food?**

- A) Crop
- B) Gizzard
- C) Esophagus
- D) Small intestine

**18. What is the main function of the lateral line system in fish?**

- A) Detecting vibrations
- B) Digesting food
- C) Filtering water
- D) Storing fat

**19. Which of these animals is classified as an invertebrate?**

- A) Snake
- B) Octopus
- C) Eagle
- D) Dolphin

**20. What is the term for an animal that is active during the night?**

- A) Diurnal
- B) Crepuscular
- C) Nocturnal
- D) Seasonal