

# High School Zoology Fundamentals

Zoology · Answer Key · 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