High School Zoology Assessment

Zoology · Answer Key · 18 Questions

1. Which class of vertebrates is characterized by having skin covered in scales, laying amniotic eggs, and being ectothermic?

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

2. What is the primary function of the lateral line system found in fish?

A) Detecting vibrations and pressure changes in water
B) Regulating buoyancy
C) Filtering oxygen from water
D) Excreting nitrogenous waste

3. Which organelle is notably abundant in the muscle cells of high-activity animals to provide ATP?

A) Lysosome
B) Mitochondrion
C) Golgi apparatus
D) Nucleus

4. In cnidarians, what are the specialized stinging cells used for prey capture and defense called?

A) Choanocytes
B) Cnidocytes
C) Amoebocytes
D) Proglottids

5. Which group of mammals is unique for laying eggs instead of giving birth to live young?

A) Marsupials
B) Monotremes
C) Placentals
D) Eutherians

6. What is the primary respiratory surface in insects?

A) Lungs
B) Gills
C) Tracheal tubes
D) Skin

7. Which phylum do organisms with a mantle, visceral mass, and a muscular foot belong to?

A) Annelida
B) Arthropoda
C) Mollusca
D) Echinodermata

8. What is the main nitrogenous waste product excreted by birds to conserve water?

A) Ammonia
B) Urea
C) Uric acid
D) Creatinine

9. Which part of the avian digestive system is responsible for grinding food using swallowed stones?

A) Crop
B) Proventriculus
C) Gizzard
D) Cloaca

10. What type of circulatory system do most arthropods possess?

A) Closed circulatory system
B) Open circulatory system
C) Double loop system
D) Pulmonary system

11. Which characteristic is shared by all chordates at some stage of their development?

A) Bony skeleton
B) Notochord
C) Three-chambered heart
D) Lungs

12. What is the process of shedding an exoskeleton in arthropods called?

A) Metamorphosis
B) Ecdysis
C) Regeneration
D) Budding

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13. In which structure does nutrient absorption primarily occur in the mammalian digestive tract?

A) Stomach
B) Esophagus
C) Small intestine
D) Large intestine

14. What are the specialized cells in sponges that use flagella to move water and trap food?

A) Cnidocytes
B) Choanocytes
C) Osculum
D) Spicules

15. Which vertebrate class features a four-chambered heart and feathers?

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

16. What term describes an animal that maintains a constant internal body temperature despite environmental changes?

A) Ectotherm
B) Poikilotherm
C) Endotherm
D) Heterotherm

17. Which phylum is characterized by having radial symmetry in adults and a water vascular system?

A) Cnidaria
B) Chordata
C) Echinodermata
D) Platyhelminthes

18. What is the primary function of the amniotic egg in terrestrial vertebrates?

A) To facilitate gas exchange through the shell
B) To provide nutrients to the adult
C) To prevent the embryo from drying out
D) To allow for internal fertilization

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