Advanced Zoology Challenge

Zoology · Answer Key · 10 Questions

1. Which specialized organelle in cnidarians, such as jellyfish, is used for defense and capturing prey by injecting toxins?

A) Choanocyte
B) Cnidocyte
C) Amoebocyte
D) Statocyst

2. In avian respiratory systems, what structures allow for a continuous, unidirectional flow of air through the lungs?

A) Alveoli
B) Diaphragms
C) Air sacs
D) Tracheoles

3. Which taxonomic order includes animals that possess a cloaca, lay leathery eggs, and produce milk through specialized skin patches rather than nipples?

A) Monotremata
B) Marsupialia
C) Eutheria
D) Chiroptera

4. What is the primary nitrogenous waste product excreted by most terrestrial insects to conserve water?

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

5. Which group of vertebrates is characterized by having a cartilaginous skeleton, placoid scales, and a lack of a swim bladder?

A) Osteichthyes
B) Chondrichthyes
C) Agnatha
D) Amphibia

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6. What specialized structure in earthworms stores ingested food before it passes to the gizzard for mechanical digestion?

A) Crop
B) Caecum
C) Pharynx
D) Intestine

7. Which hormone is primarily responsible for the molting process (ecdysis) in arthropods?

A) Adrenaline
B) Ecdysone
C) Thyroxine
D) Insulin

8. In cephalopods, which structure is used to forcefully expel water for jet propulsion?

A) Radula
B) Siphon
C) Mantle
D) Tentacle

9. What is the function of the lateral line system found in many fish species?

A) Detecting chemical signals
B) Filtering oxygen from water
C) Sensing vibrations and pressure changes
D) Regulating buoyancy

10. Which class of echinoderms includes sea urchins and sand dollars, characterized by a globe-like or flattened body covered in spines?

A) Asteroidea
B) Ophiuroidea
C) Echinoidea
D) Holothuroidea

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