

# ZOOLOGY

## CLASSIFICATION OF THE METAZOAN KINGDOM



### METAZOAN CHARACTERISTICS

- Multicellular
- Eukaryotic
- Specialized cells
- Division of labor
- Germ layers
- Embryonic development

### CELLULAR ORGANIZATION

1. Unicellular organisms: Single-celled organisms like amoeba and paramecium.
2. Colonial organisms: Groups of similar cells living together, e.g., Volvox.
3. Tissue level: Cells are specialized and organized into tissues, e.g., muscle tissue.
4. Organ level: Different tissues form organs, e.g., heart.
5. Organ system level: Organs work together to perform a function, e.g., digestive system.
6. Organism level: The whole organism, e.g., a human.

### CELLULAR ORGANIZATION (Continued)

- Cell wall: Provides structural support.
- Cell membrane: Controls the entry and exit of substances.
- Cytoplasm: Site of various metabolic activities.
- Nucleus: Contains genetic material (DNA).
- Mitochondria: Site of cellular respiration.
- Chloroplasts: Site of photosynthesis.
- Golgi apparatus: Involved in protein synthesis and transport.
- Lysosomes: Contain digestive enzymes.
- Centrioles: Involved in cell division.

### CELLULAR ORGANIZATION (Continued)

- Amoeba: Unicellular organism with a cell membrane and cytoplasm.
- Paramecium: Unicellular organism with a cell membrane and cilia.
- Volvox: Colonial organism with a cell wall and flagella.
- Hydra: Organism with a body wall consisting of two layers of cells.
- Earthworm: Organism with a body wall consisting of many layers of cells.
- Human: Organism with a body wall consisting of many layers of cells.

# Zoology Study Guide

**RS Peters**



## **Zoology Study Guide:**

*Zoology Study Guide* Arshad Iqbal, 2018-02-09 Zoology study guide has 510 MCQs Zoology quick exam prep quiz questions and answers MCQs on DNA hormones biological catalysts human endoskeleton immunity exoskeletons fertilization fundamental unit of life genetic unity glycolysis homeostasis invertebrates circulatory system nervous system digestive system muscular system and neurons MCQs and quiz are to practice exam prep tests Zoology multiple choice quiz questions and answers Zoology exam revision and study guide with practice tests for online exam prep and interviews Zoology interview questions and answers to ask to prepare and to study for jobs interviews and career MCQs with answers keys Behavioral ecology quiz has 14 multiple choice questions Cell division quiz has 20 multiple choice questions Cells tissues organs and systems of animals quiz has 35 multiple choice questions Chemical basis of animals life quiz has 54 multiple choice questions Chromosomes and genetic linkage quiz has 30 multiple choice questions Circulation immunity and gas exchange quiz has 23 multiple choice questions Ecology communities and ecosystems quiz has 19 multiple choice questions Ecology individuals and populations quiz has 15 multiple choice questions Embryology quiz has 30 multiple choice questions Endocrine system and chemical messenger quiz has 44 multiple choice questions Energy and enzymes quiz has 19 multiple choice questions Inheritance patterns quiz has 13 multiple choice questions Introduction to zoology quiz has 19 multiple choice questions Molecular genetics ultimate cellular control quiz has 27 multiple choice questions Nerves and nervous system quiz has 20 multiple choice questions Nutrition and digestion quiz has 11 multiple choice questions Protection support and movement quiz has 61 multiple choice questions Reproduction and development quiz has 10 multiple choice questions Senses and sensory system quiz has 19 multiple choice questions Zoology and science quiz has 27 multiple choice questions Zoologist jobs interview questions and answers MCQs on acids bases and buffers amoeboid movement amphibian embryology an introduction to animal muscles animals and their abiotic environment animals strategies for getting and using food applications of genetic technologies approaches to animal behavior asexual reproduction in invertebrates atoms and elements building blocks of all matter birth of modern genetics bones or osseous tissue chemical messengers ciliary and flagellar movement classification of animals community structure and diversity compounds and molecules aggregates of atoms control of gene expression in eukaryotes development of behavior DNA genetic material echinoderm embryology embryonic development cleavage and egg types endoskeletons enzymes biological catalysts evolutionary mechanisms evolutionary oneness and diversity of life exoskeletons fertilization fundamental unit of life genetic unity glycolysis first phase of nutrient metabolism historical perspective homeostasis and temperature regulation hormones and their feedback systems hormones of invertebrates hormones of vertebrates birds and mammals human endoskeleton immunity integumentary system of invertebrates integumentary system of vertebrates integumentary systems internal transport and circulatory system interspecific competition interspecific interactions invertebrates nervous system invertebrates sensory reception mammalian

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