

Study Guide for Introduction to Animal Physiology

Review the Animal Kingdom Characteristics

_____ % of all named animals are **Invertebrates**.

_____ % of all named animal are **Vertebrates**

> 35 different phyla - LOTS of DIVERSITY!!

Invertebrates are animals that lack a backbone. Huge diversity found here - *sponges, corals, starfish, insects, worms, etc.*

All 35 phyla have invertebrate members

Vertebrates are animals that have backbones. Much less diversity is seen here - *fish, amphibians, reptiles, birds & mammals*

Tissue: define –

ECM (extracellular matrix): define –

Animal tissues are characterized by **1) cell structure and function and/or by 2) the ECM found around the cells**. **Plant tissues didn't have ECM. Why wasn't it needed?**

Do all animal tissues form the same amounts of ECM?

ECM can be composed of different materials which gives the tissue certain form and function.

The ECM can be fluid

The ECM can be fibrous (protein fibers)

The ECM can be composed of proteoglycans

The ECM can be solid (minerals)

Connective Tissue:

Functions: _____ & _____ & _____

Connective tissues have _____ amounts of ECM compared to other tissues

Fill in chart!

Tissue Name	Location in the body	Type of ECM
Loose Connective tissue		
Dense Connective Tissue		
Blood		
Cartilage		
Bone		

Epithelial Tissues:

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The American Monthly Microscopical Journal Romyn Hitchcock, Henry Leslie Osborn, Charles Wesley Smiley, 1889

[Anatomy and Physiology of Farm Animals](#) Anna Dee Fails, Christianne Magee, 2018-04-06 Revised and updated the eighth edition of *Anatomy and Physiology of Farm Animals* remains the essential resource for detailed information on farm animal anatomy and physiology Offers a revised edition to this comprehensive guide to the anatomy and physiology of farm animals Presents learning objectives in each chapter for the first time Adds new material on endocrine and metabolic regulation of growth and body composition Features additional illustrations to enhance comprehension Includes a companion website that offers supplemental content including word roots clinical cases study and practice questions the images from the book and additional images diagrams and videos to enhance learning This book will be an invaluable resource for animal science veterinary technician and preveterinary students as well as instructors because it is well organized and easy to understand and contains reasonable details

JAVMA Vol 255 No 6

Physiology of Domestic Animals William O. Reece, 1997 his book is an excellent introductory course in physiology for the student in agricultural science veterinary technology and pre veterinary medicine It provides in depth coverage of eight species including horse dog cat cow sheep goat pig and chicken The latest edition is extensively revised and features 133 newly created original drawings that capture the essence of physiologic concepts and allow the reader to compare Each chapter is followed by self assessment and review questions and at the back of the book readers will find answers to these questions as well as expanded explanations providing a handy reference and study guide The second edition provides augmented coverage of avian physiology and a new chapter on bone has been added with comprehensive presentation of the skeleton for each of the species

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