

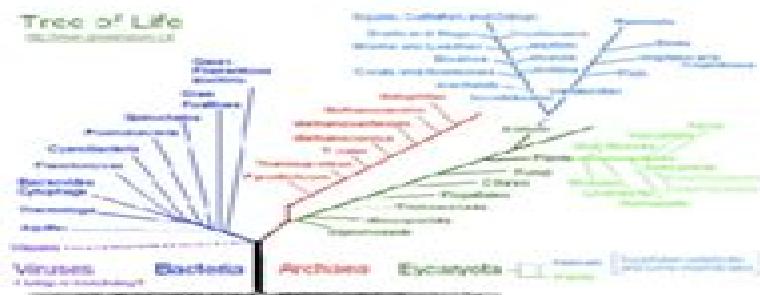
# Biology Exam 1 Study Guide

## Lecture 1 — Introduction to Biological Science

### Tree of Life

- Domains

- Eukarya → visible life
  - Split into animals and plants
  - Very small portion
- Bacteria → single cell
  - Make up most of life's branches
  - Symbionts that evolved into mitochondria and chloroplasts were eubacteria
- Archaea → original domain of life
  - More closely related to eukaryotes than eubacteria, first branch of life
  - Basic split between archaea and bacteria



- Candidate phyla radiation: Single species have been identified, each identifies an entire phylum which is yet to be understood - pioneer species (tree is dominated by new species that scientists have never seen before)
- Species disappearing faster than can be recovered
- Eukaryotes and archaea are most closely related branches

### Destruction and Mass Extinction

- One million species face imminent extinction because of humans
- Recent past → >50% vertebrates / >75% flying insects lost in the past <50 years
- Critically threatened → >40% amphibians, >30% plants/corals/sharks, >25% mammals
- Populations and extinctions have increased

### Theory of Evolution

- Evolution: all life on earth evolved from a common ancestor; most properties within cells work in the same way, the change in gene distribution over time within a population
- Theory: a very well substantiated idea that explains many overlapping phenomena at once: wide-ranging, strongest. Not a hypothesis
- Darwin: species arise through random mutation and natural selection for fitness
- Evidence (fewer than 40% of Americans believe in evolution)
  - fossil record shows conservation of homologous structures
  - Molecular proof: same DNA and RNA protein in cells
  - Homologous function in hands and fins → evolved similar mechanisms in appendages
- Scopes Monkey Trial
  - Scopes taught evolution illegally: resulted in Butler Act → forbid teaching evolution in TN
- Endosymbiont theory
  - Single composite cell of greater complexity could evolve from two or more separate simpler living cells in a symbiotic relationship

### Year of Earth's History

- 1 Jan: earth formed 4.54 bya by acceleration of material from the solar nebula via gravitational collapse, conditions were incompatible with life, bombarded with asteroid-sized meteors for 800 million years
- 4 Mar: by 3.8 bya bombardment had slowed, Earth had cooled to lower temps "compatible" with life

# Mfat Biology Study Guide

**Scott C. Dulebohn**

## **Mfat Biology Study Guide:**

Knight's Forensic Pathology Pekka Saukko,Bernard Knight,2015-11-04 The fourth edition of Knight's Forensic Pathology continues to be the definitive international resource for those in training and in practice covering all aspects of the medico-legal autopsy including the cause and time of death interpretation of wounds and every other facet of the investigation of a fatality The contents are intended to lead the Psychological Testing Thomas P. Hogan,2003 Tom Hogan's Psychological Testing A Practical Introduction emphasizes active learning strategies to provide a practical introduction to the field of testing in psychology and allied disciplines A rigorous yet accessible text Psychological Testing is uniquely written as a learning device as opposed to a reference work encouraging students to apply the material they are learning to real life contemporary situations Part I covers the basic concepts of psychological testing while Part II provides an introduction to the major categories of psychological tests For each category a chapter outlines the major conceptual and procedural approaches and gives examples of tests in the category **Government Reports Announcements & Index** ,1985 Barron's Profiles of American Colleges ,2001 Government Reports Annual Index ,1994 **World List of Future International Meetings** ,1968 Biology Study Guide ,2007 **Profiles of American Colleges with CD-ROM** Barron's Educational Series,2002-07-12 America's definitive guide to all accredited four year colleges and universities has been updated with the latest information figures and fees More than 1 650 schools are profiled with details on admission requirements academic programs tuitions and other fees sources of available financial aid library facilities computer facilities descriptions of campus environments athletic facilities extracurricular activities e-mail addresses fax numbers web sites and more Each school receives Barron's exclusive academic rating system which advises students on its degree of academic competitiveness from Noncompetitive to Most Competitive Also included on tinted pages for quick reference is a complete index of college majors listed in chart form and including every major offered by every college A CD ROM enclosed with each copy of the book can be used for both Windows and Mac operating systems It is set up in an interactive format allowing students to ask specific questions about individual schools **Skeletal Attribution of Race** George W. Gill,1990 The field of forensic anthropology has become increasingly important to other forensic scientists and to the public since the 1970s Compiled from a symposium organised by the Mountain Desert and Coastal Forensic Anthropologists this is one of the few book length works devoted entirely to the determination of racial affiliation from skeletal remains It is valuable for its graphic images of variation in skull and face form and covers a wide range of techniques for determining ancestry in unknown individuals This is a great book for students of forensic anthropology **Anthropology News** ,2000 Biology John P. Harley,1986 **Current Law Index** ,1985 **The Study of Biology, Third Edition** Jeffrey J. W. Baker,P.S. Associates,Garland E. Allen,1977 Modern Biology ,2002 Biology David J. Fox,Adele C. Monroe,1989 Biology Grace Monger,1985 Biology John W. Kimball,1978 **Biology: Biology Study Guide** Pamphlet Master,2014-10-12 This Biology study guide is created by

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