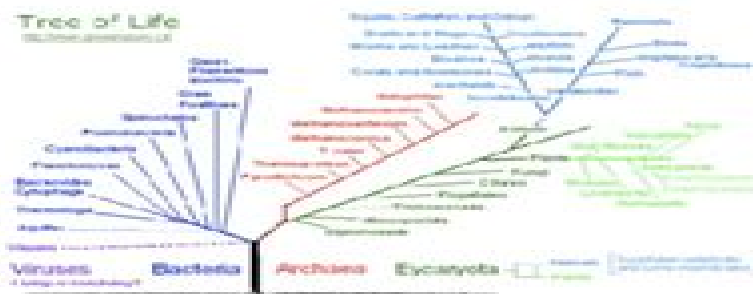


## Biology Exam 1 Study Guide

### 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 the temps "compatible" with life

# Study Guide Biology

**Andrew Allott**



## **Study Guide Biology:**

**Biology for Advanced Level** Glenn Toole,Susan Toole,2000 This course study guide is designed to complement New Understanding Biology for Advanced Level or other physics core textbooks It aims to be a study aid by providing you with your own copy of important diagrams to clip into your notes Additional information on practical coursework hints and tips for preparing and answering all types of examination questions and support for Key Skills are also included **Study Guide for Use with Biology for the Informed Citizen** Sharon Gilman,2014-01-14 Designed to work with Biology for the Informed Citizen by Donna M Bozzone and Douglas S Green this Study Guide provides students with brief summaries and step by step analyses of each chapter additional review questions and thoughtful advice and study tips The Study Guide is authored by Sharon Gilman who is also the author of the book s test item file a resource for instructors that includes over 1200 questions for easy student evaluation **Study Guide for Campbell Biology** Jane B. Reece,Martha Taylor,Richard Liebaert,Eric Simon,Jean Dickey,2012 Students can master key concepts and earn a better grade with the thought provoking exercises found in this study guide A wide range of questions and activities helps students test their understanding of biology **Holt Biology** ,200? **General Biology - Biology 1010** , **NYSTCE Biology (06) Study Guide** Trivium Test Trivium Test Prep,2013-10-02 Think all NYSTCE Biology study guides are the same Think again With easy to understand lessons and practice test questions esigned to maximize your score you ll be ready You don t want to waste time and money retaking an exam You want to accelerate your education not miss opportunities for starting your future career Every year thousands of people think that they are ready for the NYSTCE Biology exam but realize too late when they get their score back that they were not ready at all They weren t incapable and they certainly did their best but they simply weren t studying the right way There are a variety of methods to prepare for the NYSTCE Biology test and they get a variety of results Trivium Test Prep s NYSTCE Biology study guide provides the information secrets and confidence needed to get you the score you need the first time around Losing points on the NYSTCE Biology exam can cost you precious time money and effort that you shouldn t have to spend What is in the book In our NYSTCE Biology study guide you get the most comprehensive review of all tested concepts The subjects are easy to understand and have fully explained example questions to ensure that you master the material Best of all we show you how this information will be applied on the real exam NYSTCE Biology Study Guide practice questions are included so that you can know without a doubt that you are prepared Our study guide is streamlined and concept driven so you get better results through more effective study time Why spend days or even weeks reading through meaningless junk trying to sort out the helpful information from the fluff We give you everything you need to know in a concise comprehensive and effective package **Study Guide for Solomon/Martin/Martin/Berg's Biology** Eldra Solomon,Charles Martin,Diana W. Martin,Linda R. Berg,2014-02-11 Helping you to do your best on exams and excel in the biology course the Study Guide contains many types of questions and a variety of exercises for each chapter in the textbook

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**General Biology Study Guide for Biology 1010 - Answers - Ebook** Heather Wilson Ashworth,2015-08-06

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