

## 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 For Biology Teaching Cert

**S Marginson**



## **Study Guide For Biology Teaching Cert:**

**MTTC Biology (017) Study Guide** Mttc Biology Exam Prep Team,Cirrus Test Prep,2016-11-15 MTTC Biology 017 Study Guide Exam Prep and Practice Test Questions for the Michigan Test for Teacher Certification will provide you with a detailed overview of the MTTC Biology exam so you know exactly what to expect on test day We ll take you through all the concepts covered on the test and give you the opportunity to test your knowledge with practice questions Even if it s been a while since you last took a major test don t worry we ll make sure you re more than ready Cirrus Test Prep s MTTC Biology 017 Study Guide Exam Prep and Practice Test Questions for the Michigan Test for Teacher Certification includes A comprehensive REVIEW of The Nature of Science Molecular and Cellular Biology Genetics and Evolution Biological Classification Animals Plants Ecology Technology and Social Perspectives as well as TWO FULL MTTC Biology practice tests About Cirrus Test Prep Developed by experienced current and former educators Cirrus Test Prep s study materials help future educators gain the skills and knowledge needed to successfully pass their state level teacher certification exams and enter the classroom Each Cirrus Test Prep study guide includes a detailed summary of the test s format content and scoring an overview of the content knowledge required to pass the exam worked through sample questions with answers and explanations full length practice tests including answer explanations and unique test taking strategies with highlighted key concepts Cirrus Test Prep s study materials ensure that new educators feel prepared on test day and beyond **Mttc Biology 17 Teacher Certification Test Prep Study Guide** Sharon Wynne,2006-10 Includes 27 competencies skills found on the MTTC Biology test and 150 sample test questions This guide aligned specifically to standards prescribed by the Michigan Department of Education covers the sub areas of Foundations of Scientific Inquiry Cellular Function Heredity and Evolutionary Changes Organization of Living Things and Ecological Systems [FTCE Biology 6-12 Teacher Certification Exam Study Guide](#) Ftce Biology Exam Prep Team,Cirrus Test Prep,2016-11-15 FTCE Biology 6 12 Teacher Certification Exam Study Guide Test Prep Review Book and Practice Questions for the Florida Teacher Certification Examinations will provide you with a detailed overview of the FTCE Biology exam so you know exactly what to expect on test day We ll take you through all the concepts covered on the test and give you the opportunity to test your knowledge with practice questions Even if it s been a while since you last took a major test don t worry we ll make sure you re more than ready Cirrus Test Prep s FTCE Biology 6 12 Teacher Certification Exam Study Guide Test Prep Review Book and Practice Questions for the Florida Teacher Certification Examinations includes A comprehensive REVIEW of The Nature of Science Molecular and Cellular Biology Genetics and Evolution Biological Classification Animals Plants Ecology Technology and Social Perspectives as well as TWO FULL FTCE Biology practice tests About Cirrus Test Prep Developed by experienced current and former educators Cirrus Test Prep s study materials help future educators gain the skills and knowledge needed to successfully pass their state level teacher certification exams and enter the classroom Each Cirrus Test Prep study guide includes a detailed summary of

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during the recrystallization process the melting range of the unknown was observed to be 64 66 c and thus can be identified as biphenyl which has a melting range of 69 71 c

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