

Study Guide 1
Prepare for Exam 1

Answer each question using complete sentences. If you can write a complete and thorough essay to answer each question you will be better prepared for the exam. Question numbers do not correlate to chapter sections in the textbook.

Chapter 1

- 1.1 Describe each of the fundamental properties of life
- 1.2 Describe the hierarchical organization of life
- 1.3 Describe the process of science
- 1.4 What is the hypothetic-deductive method?
- 1.5 With regard to Darwin's theory of evolution, define the following:
 - Perpetual change
 - Common descent
 - Phylogeny
 - Multiplication of species
 - Gradualism
 - Natural selection
 - Adaptation
- 1.6 How does neo-Darwinism differ from Darwinism?

Chapter 2

- 2.1 Describe the properties of water that are essential for life.
- 2.2 What are carbohydrates? Name the three classes of carbohydrates.
- 2.3 Describe the three main groups of lipids.
- 2.4 Describe the function of proteins. What is the difference between primary, secondary, tertiary, and quaternary structures of a protein?
- 2.5 What was the early earth environment like?
- 2.6 What is the significance of the Miller-Urey experiments?
- 2.7 Describe how chemical evolution could have formed polymers
- 2.8 When did life appear on the planet? Explain the current hypothesis of the origin of a self-replicating molecule.
- 2.9 Define the following:
 - Eukaryote
 - Prokaryote
 - Autotroph
 - Heterotroph
- 2.9a What is endosymbiosis and how is this important in the evolution of eukaryotes?
- 2.9b What is the Cambrian explosion?

Chapter 6 (skim section 6.4; we won't deal with this in detail)

- 6.1 Describe the contributions of Lamarck and Lyell to Darwin's evolutionary theory.
- 6.2 Describe Darwin's how each of the following contributed to Darwin's theory of evolution: fossils, Malthus' essay, animal breeding, geographic distribution of similar animals.
- 6.3 Who was Alfred Russel Wallace?
- 6.4 Define the following terms:
 - Homology
 - Ontogeny
 - Heterochrony
 - Paedomorphosis
- 6.5 Describe the following and describe an example of each:
 - Allopatric speciation

2015 Railroad Study Guide Answers

Kim Cooper, Kelly Gosnell



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