

Study Guide for the Exam 2

Geologic Time

- 1) The Importance of Cyanobacteria
- 2) How Did the Solar System Form?
- 3) Extinction and Its Causes
- 4) Major Events of the Geologic Time Scale
- 5) Relative and Absolute Dating Techniques

Plate Tectonics

- 1) Continental Drift-Wagener
- 2) Seafloor Spreading-Hess
- 3) Plate Boundary Types
 - a) Convergent Boundaries
 - 1) Ocean-Ocean
 - 2) Ocean-Continental
 - 3) Continental-Continental
 - b) Divergent Boundaries
 - c) Transform Boundaries
- 4) Examples of all Boundary Types

Earthquakes

- 1) Types of Seismic Waves
 - a) Body Waves
 - b) Surface Waves
- 2) Locating and Measuring Earthquakes
 - a) Magnitude (Richter and Moment Magnitude)
 - b) Intensity (Mercalli)
 - c) Calculating the Epicenter
- 3) Distribution and Effects of Earthquakes
 - a) Tsunamis
 - b) World Distribution

Geologic Structures

1) Brittle and Ductile Behavior in Rocks

2) Faulting

a) Strike-Slip Faults

b) Dip-Slips Faults

3) Folding

a) Anticlines and Synclines

b) Domes and Basins

c) Monoclines

I will ask you eight essay questions from this list of topics. You will be only required to answer five of those questions. There will also be a bonus question. The essay section of the test is worth 50 points. The multiple choice part of the exam is also worth 50 points.