

## **Geology Test #3 Study Guide**

### Weathering

- 1) Chemical Weathering
- 2) Mechanical Weathering
- 3) Special Weathering Types
  - a) Spheroidal Weathering and Exfoliation
  - b) Differential Weathering

### Mass Wasting

- 1) Factors Influencing Mass Wasting
- 2) Types of Mass Wasting
- 3) Evidence of Creep
- 4) Types of Debris Flows

### Streams and Floods

- 1) Drainage Patterns
- 2) Stages of Development of Streams
- 3) Factors Influencing Stream Erosion and Deposition
- 4) Stream Erosion
- 5) Stream Deposition

### Groundwater

- 1) The Water Table and Movement of Ground Water
- 2) Aquifers
- 3) Effects of Groundwater
  - a) Karst Topography
  - b) Other Effects

### Glaciers and Glaciation

- 1) The Glacial Budget
- 2) Types of Glaciers
- 3) Glacial Erosion and its Features

Erosional Features Examples: Horn, Arete, Col, Cirque, Hanging Valley, Tarn, Rock Basin Lakes, Truncated Spur
- 4) Glacial Deposition and its Features

Depositional Feature Examples: Moraines (Various Types), Drumlins, Eskers, Kames and Kettles, Outwash
- 5) Past Glaciations (and Future) and their Causes

### Deserts and Wind Action

- 1) Distribution of Deserts and Reasons for their Distribution
- 2) Characteristics of Deserts
- 3) US Desert Areas
- 4) Wind Erosional Features
- 5) Wind Depositional Features (Including Dune Types)

### Waves, Beaches and Coasts

- 1) Parts of the Wave
- 2) Near Shore Circulation
  - a) Longshore Currents
  - b) Rip Currents
  - c) Wave Refraction
- 3) Erosional Coasts
- 4) Depositional Coasts
- 5) Other Coasts
  - a) Drowned Coastlines
  - b) Uplifted or Tectonic Controlled Coasts

**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.**