

## **Study Guide for Exam 3 (The Final One)**

### **Episode 19: Running Water 1: Rivers, Erosion and Deposition (Chapter 16 in the text)**

### **Episode 20: Running Water 2: Landform Evolution (Chapter 16 in the text)**

- 1) Drainage Patterns of Streams
- 2) Stages of Development of Streams
- 3) Factors Influencing Stream Erosion and Deposition
- 4) Stream Erosion
- 5) Stream Deposition
- 6) Competence and Capacity
- 7) Concept of a Graded Stream

### **Episode 21: Groundwater**

(Chapter 17 in the text)

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

### **Episode 22: Wind, Dust and Deserts**

(Chapter 18 in the text)

- 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)

### **Episode 23: Glaciers**

(Chapter 19 in the text)

- 1) The Glacial Budget
- 2) Types of Glaciers
- 3) Glacial Erosion and its Features
- 4) Glacial Deposition and its Features
- 5) Past Glaciations (and Future) and their Causes

### **Episode 24: Waves, Beaches and Coasts**

(Chapter 20 in the text)

- 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

### **Episode 25: Living With Earth, Part 1 (Geologic Hazards)**

(Review Chapters 1, 7, 10, 13)

- 1) Mount Saint Helens
- 2) Earthquakes and Prediction
- 3) Mass Wasting Disasters
- 4) Flooding

### **Episode 26: Living with Earth, Part 2**

(Chapter 21)

- 1) Geologic Origin of Petroleum and Coal
- 2) Renewable and Nonrenewable resources
- 3) Global Warming and its Effects

**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.**