

## Earth & Environmental Science Final Exam Study Guide

### Astronomy – 1.1

1. 1.1.1 What does the geocentric model of the solar system look like?
2. 1.1.1 What is the theory that the Solar System developed from a cloud of dust and gas?
3. 1.1.1 At what point is Earth closest to the sun?
4. 1.1.1 What are the Jovian planets vs terrestrial?
5. 1.1.2 What is responsible for the seasonal changes on earth?
6. 1.1.2 What causes the earth to experience tides?
7. 1.1.2 What causes earth to experience days and years?
8. 1.1.2 Why is the circumference of the earth larger at the equator than the poles?
9. 1.1.3 What is fusion?
10. 1.1.3 What is fission?
11. 1.1.3 What process produces radiant energy in stars?
12. 1.1.4 What causes the differential heating of Earth's surface (differences in land and water)?
13. 1.1.3 Explain how photosynthesis works.

### Lithosphere – Rocks & Soils 2.1

1. 2.1.1 What are the three types of rock?
2. 2.1.1 What are the two types of energy that drive the Earth's rock cycle?
3. 2.1.1 What rock is formed when magma hardens beneath the Earth's surface?
4. 2.1.1 What is the classification of a rock that is formed by cooling lava?
5. 2.1.1 List in order the processes that form sedimentary rock.
6. 2.1.2 What is the difference between a soil map and a geologic map and how are each useful?
7. List the process that forms coal or oil, and note the differences between the two?
8. Where would one usually find the oldest sedimentary rock, near the surface or deeper down?
9. What is the make-up by percentage of the average soil?
10. 2.1.3 List the sequence of soil formation.

### Lithosphere - Plate Tectonics 2.1

1. 2.1.1 How did Wegener's Continental Drift **Hypothesis** get elevated to today's Plate **Tectonics Theory**?
2. 2.1.1 What is the name for the supercontinent in the continental drift hypothesis?
3. 2.1.1 Why do we have mountains on Earth?
4. 2.1.1 What is the significance of the asthenosphere having a putty consistency?
5. 2.1.1 What kind of plate boundary occurs where two plates glide past each other without destroying or producing lithosphere?
6. 2.1.1 What type of boundary occurs where two plates move together, causing one plate to descend in the mantle beneath the other plate?
7. 2.1.1 Where is new oceanic crust formed?
8. 2.1.1 What forms when one oceanic plate is forced beneath another plate?
9. 2.1.1 What boundary destroys oceanic lithosphere?
10. 2.1.1 What provides the energy for plate tectonics?

# Environmental Science Final Exam Answer Study Guide

**Rachel S Tattersall**



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