**PART A. SC7.2.1: Earth’s Layers (3 questions; 7 points)**

1) List the layers of the Earth in order from outside to inside

2) Identify whether each layer is liquid or solid

3) Identify which layers are made of nickel and iron

4) What effect does the mantle’s plasticity have on the tectonic plates?

5) Explain how mountain folding created the Sierra Madre Mountains.

6) At what type of boundary did the Sierra Madre Mountains form?

**PART B. SC7.2.2: Constructive and Destructive Forces (5 questions; 7 points)**

7) What happens when volcanoes erupt?

8) What is weathering?

9) What is chemical weathering? Give examples.

10) What is mechanical weathering? Give examples.

11) What is erosion, and what are the 4 forces that cause erosion?

12) Describe what happens when water runs across a stream table.

13) Explain what causes layers of rock to form.

**PART C. SC7.2.3: Soil (2 questions; 7 points)**

14) What is found in the O horizon of a soil profile?

15) What is found in the A horizon of a soil profile?

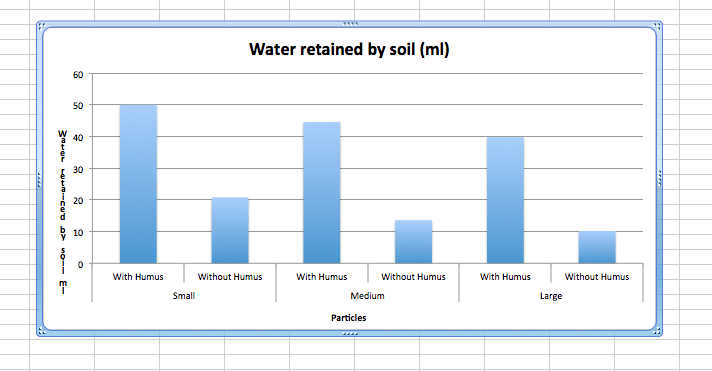
16) What is found in the B horizon of a soil profile?

17) What is found in the C horizon of a soil profile?

18) What is found in the D horizon of a soil profile?

19) Explain what percolation rate and absorption capacity are AND how they are related.

20) Explain what this graph is showing:



21) Using the graph above, identify what type of soil would be best for a cucumber plant which likes lots of organic material and lots of water.

**PART D. SC7.2.4: The Rock Cycle (2 questions; 14 points)**

22) Draw and label a diagram of the rock cycle.

23) Explain how a metamorphic or sedimentary rock can become an igneous rock.

24) Explain how an igneous rock or a metamorphic rock can become a sedimentary rock.

25) Explain how a sedimentary or igneous rock can become a metamorphic rock.

**PART E. SC7.2.5: Rock Types (4 questions; 7 points)**

26) How do geologists test to see if a rock is limestone?

27) Identify the main characteristics of igneous rocks.

28) Identify the main characteristics of metamorphic rocks.

29) Identify the main characteristics of sedimentary rocks.