

ESC 115 Physical Geology

Test 4

Fall, 2007

The first seven questions refer to the slides we will view together in class. Please use the space provided to answer the questions.

1. (6 pts) What is the difference between porosity and permeability?
2. (6 pts) What are the dots shown? Explain how they form.
3. (6 pts) How does natural resource use relate to population growth? Give an example.
4. (6 pts) Explain the process by which the desert circled forms. Under what circumstances is above-average rain likely?
5. (6 pts) Explain the effect of the illustrated process upon climate patterns.

11. (8 pts) Sketch the hydrologic cycle, labelling each part and indicating with arrows the direction of water movement.
12. (8 pts) Sketch a confined aquifer, labelling the recharge and discharge areas and direction of flow.
13. (8 pts) Sketch an unconfined aquifer, labelling the recharge and discharge areas and direction of flow.
14. (6 pts) Sketch and label the process by which a rainshadow desert forms.