

ESC 115 Physical Geology

Test 4

Spring, 2008

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) Where is most of the world's fresh water? What are two ways it is used?
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?

9. (6 pts) What are three reasons oil prices are currently so high?

10. (8 pts) What are the main processes in soil formation? Sketch and label a type soil profile in a humid climate.

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, such as the Bighorn Basin, labelling the recharge and discharge areas and direction of flow.

13. (8 pts) Sketch an unconfined aquifer, such as at my home in Walnut Cove, NC, labelling the recharge and discharge areas and direction of flow.

14. (6 pts) Sketch and label the process by which a rainshadow desert forms.