

ESC 115 Physical Geology

Test 1

Fall, 2007

The first 12 questions refer to the slides we will view together in class. Please use the space provided to answer the questions.

1. How can you tell whether a stream or glacier transported the rocks shown?
2. The drawing shown is from the Dubuque area. What does it represent and why? How does it relate to the history of Dubuque?
3. Explain about the white area marked X in the slide. What is the feature and how was it created? How has the landscape been affected?
4. What mineral is represented? What type of bonding? What are the strongest and weakest types of bonds?
5. The mineral shown is a silicate. What type of bonds is it likely to have?

6. The mineral shown is quartz. Explain in terms of the properties of felsic and mafic minerals what characterizes quartz. Name at least four properties.

7. What is the mineral shown? What are two properties?

8. What are hydrogen bonds? Why are they important? Give at least three properties of water that result from the bonds.

9. What happened at the location circled in red? When did it happen? What are two types of evidence?

16. Construct a diagram of the rock cycle, including the processes for forming the rocks.