Geologic Resources of Iowa

Session 2 (part 1 and part 2 30 pts.

Due : Friday April 14, 2015

1. Considering the great need of minerals and rocks in our society (i.e. American’s will use 3 million pounds of minerals, metals, and fuels in their lifetime) Take a few minutes and think about the minerals, rocks, and metals you use in your daily life… (list up to 10 minerals/rocks/metals/fuels and how you use them, and approximately where the material was mined) it is ok to use the internet and other resources. Did you find geologic resource that were surprising? (6)

2. What is limestone made of? What are the perfect group of factors to form Limestone? (4)

3. In the process of dolomitization, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ begins to exchange and/or replace Ca2+ changing limestone into dolostone. (1)

4. What would the primary differences be between and Oosparite and Wackestone? (2)

5. What formation and it’s sub (members) make up the Devonian Fossil Gorge near Coralville, Iowa? (2)

6. What geologic period records the Earth’s first fish? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (1)

7. Using knowledge gained from this week’s (Iowa’s Bedrock Part II) presentation compare and contrast Maquoketa Caves and Ledges State Park. (2pts)

8. The Manson Impact Structure is record in what type and age of rock? (2)

Rock type = Age =

9. How likely is Iowa to have well-preserved dinosaur specimens? (2)

10. To the best of your ability and knowledge ( it is ok to do some research ) try to write a history of the bedrock of your home country (try to use the relative dating concept of superposition, the different ages of bedrock in your county old to young, the environments the helped develop the rock and the life that may be preserved in the rock. Here is a good link to help you out… (8 points ) <https://www.iihr.uiowa.edu/igs/publications/search>