

6. **4 pts** How could you tell if the mineral shown is calcite, quartz, gypsum, or halite? Explain. Be sure to give an explanation for how you would test each of the four minerals.
7. **6 pts** What is an isotope? What are two geological uses for them?
8. **4 pts** What is the process shown? What are three other characteristics of water that result from hydrogen bonds?
9. **8 pts** What is the mineral shown? What type of mineral bond is it an example of? Name the three other types of mineral bonds and give example minerals for each. (Remember that hydrogen bonds are not examples of mineral bonds.)
10. **6 pts** Mining has been important to Dubuque. Give three details of that history that relates to geology.
11. **6 pts** What are three minerals that are not silicates? Why are they important?

12. **4 pts** Give an example showing that you know the difference between relative and absolute age dating.
13. **6 pts** If you were to climb in your car and drive from Dubuque northward, what would be three geologic features you could observe?
14. **3 pts** For each of the following, why is it not considered a mineral?
- cubic zirconium
 - wood
 - mercury
15. **6 pts** What are three rock properties that differ greatly between mafic and felsic rock. Tell how they differ.
16. **4 pts** How does geologic history affect the making of underwear in North Carolina? Why is that history less relevant today?
17. **4 pts** Pick any two of the stories I've told in class and/or written up on the web site, and explain their main point and how they relate to geology.

18. **9 pts** Sketch and label the rock cycle, including the processes for forming the rocks.

19. **5 pts** What are two things that contribute most to you doing well in this course? What are three things that do not contribute or get in the way of your success?

20. **5 pts** What was one review question not used on the test that you prepared for? Answer it.