



5. **(4 pts)** What is the type of volcano shown? Where is it likely to form? What are two of its hazards?
6. **(3 pts)** How do waves form and move? Why do they break?
7. **(4 pts)** What are the two main types of glaciers? Which one influenced the landscape in Iowa? How?
8. **(3 pts)** Pick one of drainage basins shown and describe it.
9. **(6 pts)** Explain how water enters a stream and affects its discharge. What are three effects of urbanization?

10. (4 pts) What is a braided stream? Where do they form?
11. (8 pts) What is a stream profile? What are three ways a stream changes as you go from its headwaters to its mouth? What is a delta? Why does it form? Draw a sketch to indicate how it forms.
12. (4 pts) Explain the 1993 Mississippi River flood.
13. (6 pts) What are the three ways a stream transports material? Explain each.
14. (3 pts) Why is a waterfall located as shown?

15. (6 pts) Compare the three main approaches for analyzing risk. Apply them to a decision.

16. (5 pts) How do earthquakes transmit energy? How does this allow us to determine the epicenter?  
What scales are used to quantify earthquakes?

17. (7 pts) Sketch tidal ranges and wetlands, indicating the type of vegetation that is adapted to growing in each range.

18. (5 pts) What is wave refraction? Sketch it. How is it related to longshore drift?

19. **(5 pts)** What is an estuary? Why is it important? Name three reasons.
20. **(3 pts)** Who was Oetzi? How was he discovered? Why does he matter?
21. **(4 pts)** What are meandering streams? What is a meander cutoff? a cutbank? a point bar? Draw a sketch to illustrate your ideas.
22. **(4 pts)** What is the difference between absolute and relative sea level? How do plate tectonics, subsidence, and climate affect sea level?