



5. (4 pts) How is the process shown similar to that of the opening of the Gulf of Mexico? Explain.
6. (6 pts) Who was Harry Hess? What were two of his contributions to geology?
7. (4 pts) Draw and label a diagram showing how the feature shown forms.
8. (6 pts) How is the figure shown similar to the formation of the Hawaiian Islands? How is it different? Name an extrusive rock common at each location.
9. (5 pts) How did Mt. Everest (shown on the slide) form? How are climbers likely to die? Draw and label a sketch of the plate tectonic process.

10. (4 pts) What is the feature shown? How did it form?
11. (4 pts) Shown is the Atlantic margin of North America. How does it differ from the Pacific margin? How do they vary from north to south?
12. (6 pts) Circled are three mountain ranges. Explain how each formed.
13. (4 pts) What is the difference between the subduction zone near the Andes Mountains and the subduction zone near Japan?
14. (3 pts) What was the gas that erupted from Lake Nyos, killing over a thousand people? How is it related to volcanoes, mafic and felsic lava, and the violence of eruptions?
15. (6 pts) For each of the three main rock types of the rock cycle, describe a plate tectonic setting in which they might form.

16. **(6 pts)** Recall the eruption of Mt St Helens. What are three indications that a volcano is about to erupt?
17. **(3 pts)** What are the three locations at which most volcanoes occur?
18. **(4 pts)** How does the cooling rate of magma affect crystal size? Give examples of two rocks that cooled *very* fast.
19. **(4 pts)** Who was Sir Edmund Hillary? Describe briefly three parts of any of the videos we've seen this semester.
20. **(5 pts)** Think of one of the review questions that you prepared for this test that has not been asked. Answer it here.