

5. **(4 pts)** How does the figure shown relate to the opening of the Gulf of Mexico?

6. **(4 pts)** Explain how the east coast differs from the west coast in terms of tectonics. How do the coast differ from from north to south?

7. **(3 pts)** Draw and label a sketch to show how the feature shown formed.

8. **(8 pts)** What were Harry Hess's two major contributions to plate tectonics? What did Alfred Wegener propose that eventually led to plate tectonics? Why was it initially rejected?

9. **(3 pts)** Explain briefly the figure shown. How does this matter at subduction zones?

10. **(6 pts)** Describe briefly three of the videos or stories from this section. To receive full credit, you must link them to geology.

11. **(6 pts)** What are three indicators that show a volcano is soon to erupt?
Extra credit: What is a precursor event for another natural hazard?
12. **(4 pts)** Based on the chart in question 1, what type of rock is likely to form
- (a) far beneath the volcanic mountains above a subduction zone: _____
 - (b) at eruption at Yellowstone: _____
 - (c) at eruption at Hawaii: _____
 - (d) at eruption at a mid-oceanic spreading center: _____
13. **(2 pts)** The Earth is 4.6 billion years old. Why hasn't it already cooled off?
14. **(2 pts)** What is a pillow basalt?
15. **(2 pts)** What is the impact of cooling rate upon texture of igneous rocks? Explain in terms of the table from Question 1.
16. **(9 pts)** Give an example of a plate tectonic setting at which each of the following rock types would form. Explain the process enough to show you understand it.
- (a) igneous:

 - (b) sedimentary:

 - (c) metamorphic:

17. **(3 pts)** Explain how Mt Kenya and Ship Rock formed.
18. **(6 pts)** What are the three tectonic locations at which most of the world's volcanoes occurs?
19. **(6 pts)** Sketch a continental-oceanic collision.
20. **(5 pts)** What is one thing you've heard in the news, in a non-geology class, or while talking with friends that you understood differently because of having taken this class? Explain how your thinking changed.
21. **(5 pts)** Think of one of the review questions that you prepared for this test that has not been asked. Answer it here.