

11. **(4 pts)** Metamorphic rocks are often found in the central portions of mountain chains. Why?

12. **(4 pts)** Explain how continents grow in size. Where do we find the new rock?

13. **(6 pts)** What tectonic feature is the San Andreas fault? Describe what is happening. Why does it result in earthquakes?

14. **(5 pts)** How can you predict that a volcano is soon to erupt? Describe the main events of the eruption of Mt. St. Helens.

15. **(5 pts)** How do the east coast and west coast of the United States differ tectonically? What other significant factor has shaped the coastline in the northern portion? How?

16. **(5 pts)** What part of mountain building is related to the formation of igneous rocks? Be as specific as possible. Draw and label a sketch if needed.

17. **(6 pts)** How do we know what the bottom of the ocean looks like? Draw and label a passive margin with a midoceanic spreading center.
18. **(4 pts)** What is the impact of dissolved gases upon volcanic eruptions? Which eruption is likely to be most violent—at Hawaii or Yellowstone?
19. **(5 pts)** Think of one of the review questions that you prepared for this test that has not been asked. Answer it here.