Name _____ Chapter 5 Investigation Worksheet

To complete this worksheet, see the instructions in the textbook (Chapter 5 Investigation).

Table 1. Interpretation of Features, Tectonic Settings, and Causes of Melting

For each site on figure 5.15.a1 in the Chapter 5 Investigation in the textbook (also page 3 of this worksheet), identify the following:

- the type of plate boundary or other setting. Possible choices include: (1) oceanic divergent, (2) continental rift, (3) ocean-ocean convergent, (4) ocean-continent convergent, (5) continental collision, (6) hot spot in an ocean, or (7) hot spot in a continent. All of these settings are not present in this area;
- the most likely cause of melting. The options are (1) decompression melting either beneath a mid-ocean ridge or near a rising ma

mid-ocean ridge

Essay

Essay answers are on the next page.

inside Earth.

13. Describe the convection currents that occu

14. How are magnetic stripes near mid-ocean ridges evidence for sea-floor spreading?

15. According to the theory of plate tectonics, explain what causes changes in Earth's surface.

South America ever joined? Cite evidence from a landform and fossil to support your answer

16. Were Africa and South America [illegible] Africa and

are a common border in the Atlantic Ocean. Name this border and explain what plate activity occurs there.

17. The Eurasian and North American plates s

ere continents support the theory of continental drift.

18. Describe how the shapes of present-day coastlines and o

19. Compare and contrast the outer core and the inner core.