1) According to the rock cycle, once a sedimentary rock forms, it will ultimately (1) experience the process of (1) and could develop into a/an (2) rock, or (2) experience the process of (3) and change into a/an (4) rock.

2) If a fossil is found in rocks dating from the Mesozoic Era, then the organism lived sometime between (5) and (6) million years ago.

3) President Bush has the authority to establish a national (7), but only (8) Congress can create a national (8).

4) Quantitatively, the most important geomorphic process (agent of erosion) operating on the surface of the earth is (9).

10-12) What major criterion would you use, and why, to separate an intrusive igneous rock from an extrusive igneous rock?

13-16) Draw a cutaway view through the Earth. Show in correct proportions and label the three major zones in the planet (crust, etc.).

17) On the diagram above, place an X at a location where a magma chamber is likely to first form.

18-21) Define asthenosphere and lithosphere, and explain how the mechanical characteristics of these zones help provide a reasonable basis for helping to explain continental drift.

On the cross sectional sketch below:

(ILLUSTRATION HERE)

22) (a) Place a small arrow along both sides of the fault that shows the relative direction of movement (i.e., did the left side go up or down relative to the right side?).

23) (b) Place a number “1” on the oldest sedimentary layer shown here.

24) (c) Place a “2” on the next youngest layer.

25) (d) Number the remaining layers.

EXTRA CREDIT: Relative to the sedimentary layers, how old is the fault?