Ch. 4 Focus/APES/Friedland

1. What kinds of natural disasters affected Kenya in 2003-2006?
2. At what dates in the year does the sun pass directly over the equator? Because of this, when does Kenya typically get heavy rain?
3. What is the difference between climate and weather?
4. Reproduce Figure 4.1, labeling accordingly. (maybe in the margin or separate paper?)
5. List and describe the three causes for unequal heading of the Earth from the sun.
6. Name and define the four properties that determine how air circulates in the atmosphere.
7. Describe Hadley cells.
8. What does the Earth’s rotation have a strong influence on?
9. Describe the three phenomena the Coriolis Effect helps us understand.
10. What causes the prevailing wind patterns that occur worldwide?
11. What does ITCZ stand for?
12. What is the degree of tilt of the Earth’s axis of rotation? \_\_\_\_\_\_\_\_\_\_\_
13. On what days do nearly all regions of the Earth receive 12 hours of daylight and darkness?
14. What are the ocean currents driven by?
15. What is significant about tropical water being 3 inches higher in elevation that midlatitude water?
16. What is the function of a gyre?
17. What drives thermohaline circulation?
18. What is a possible cause of shut down of the thermohaline circulation pattern?
19. How often do el Nino-Southern Oscillations happen? What are the results of them?
20. Reproduce figure 4.16 with appropriate scales and labels. (on attached paper)
21. What are the purposes of climate diagrams?
22. Reproduce 4.29(b) with proper labeling. (on attached paper)
23. Name and define the zones of the open ocean.
24. How have coffee beans been genetically modified?
25. What are the advantages and disadvantages of shade-grown coffee?
26. Do you drink coffee? Have you ever considered from where it was grown?