Unit D Chapter 4 Review Question Answers

1. Continental climate – in interior of continents, no influence from oceans, day time and nighttime temperatures vary, winter much colder than summer
2. Ocean currents – patterned streams of ocean water, warm-water currents go from tropics to higher latitudes, cold-water currents go from higher latitudes to tropics
3. Microclimate – within subclimates, size varies, beaches, lakes, valleys, mountains
4. Urban heat island – warm air over a city, artificial warm air over a city, artificial surfaces absorb solar energy, artificial surfaces release heat energy, energy used to run cities adds heat to air
5. Rain shadow – dry area on downward side of mountain, can be large area
6. Ice age – huge ice sheets spread beyond polar regions, caused by changing movement of Earth around Sun, caused by low CO2 levels
7. B
8. D
9. D
10. A
11. C
12. C
13. D
14. B
15. D
16. A
17. Climates cool or warm, depending on whether the land is moving toward or away from the equator. Ocean currents change and mountains are created, which influence climate.
18. Changes in Earth’s rotation and movement around the sun can affect how solar energy is distributed over Earth, and lower CO2 levels can decrease global temperature, causing ice ages
19. A large space object that struck Earth 65 million years ago might have thrown so much dust into the atmosphere that Earth’s temperature plunges for months, killing off dinosaurs
20. Cities are usually warmer than surrounding countryside.