1. How far down below the surface is the inner core? ________________

2. How thick is the outer core? ________________________________

3. What is the pressure at the bottom of the asthenosphere?

4. What is the radius of Earth? ________________________________

5. What is the diameter of Earth? ______________________________

6. What is the density of the ‘stiffer’ mantle? _________________

7. At a depth of 2500 kilometers, what is the inferred temperature and pressure?
   Temperature: ____________________  Pressure: ____________________

8. How high above the surface is the top of the mesopause? ____________

9. In what two layers of the Earth’s atmosphere can water be found? ________________

10. At a height of 50 miles above the Earth’s surface, what is the temperature? _____________

11. At a height of 70 km above the Earth’s surface, what is the temperature? ________________

12. As altitude in the atmosphere increases, what happens to Pressure? ________________

13. What element makes up most of Earth’s crust, by volume? ________________

14. What element makes up most of Earth’s crust, by mass? ________________

15. How much of the hydrosphere is Hydrogen? ______________________

16. List the Lithosphere, Hydrosphere and Atmosphere in order of INCREASING Density.

17. What is the most abundant element in Earth’s troposphere? ________________

18. Write your own question about Page 1, 10 or 14 and answer it
1. The greatest atmospheric pressure occurs in the
   (1) troposphere  (3) mesosphere
   (2) stratosphere  (4) thermosphere

2. As the elevation above sea level in the Earth's atmosphere increases, the measured atmospheric pressure will
   (1) decrease  (3) remain the same
   (2) increase

3. What is the most abundant element in the troposphere?
   (1) helium  (3) hydrogen
   (2) nitrogen  (4) oxygen

4. Which part of the atmosphere has the smallest distance from the bottom to the top of its zone?
   (1) troposphere  (3) mesosphere
   (2) stratosphere  (4) thermosphere

5. What is the approximate elevation of the stratopause?
   (1) 10 km  (3) 50 km
   (2) 30 km  (4) 80 km

6. Which statement most accurately describes the Earth's atmosphere?
   (1) The atmosphere is layered, with each layer possessing distinct characteristics.
   (2) The atmosphere is a shell of gases surrounding most of the Earth.
   (3) The atmosphere's altitude is less than the depth of the ocean.
   (4) The atmosphere is more dense than the hydrosphere but less dense than the lithosphere.

7. What is the approximate elevation above sea level at which atmospheric pressure is $10^{-1}$ atmosphere?
   (1) 7.0 km  (3) 27 km
   (2) 17 km  (4) 37 km

8. Which circle graph best represents the volume of gases in the troposphere?

9. According to the *Earth Science References Tables*, the element oxygen is found in the Earth's
   (1) troposphere, only
   (2) hydrosphere, only
   (3) troposphere and hydrosphere, only
   (4) troposphere, hydrosphere, and crust

10. In which zone of the atmosphere would a temperature of 95°C most likely occur?
    (1) troposphere  (3) mesosphere
    (2) stratosphere  (4) thermosphere

11. Which graph best represents the relationship between air temperature and elevation in the troposphere?

   (1)  
   (2)  
   (3)  
   (4)  

Page 1