

15. The origin of the word *meteorology* dates back to:

- a. the invention of the barometer
- b. the invention of the thermometer
- c. the invention of the telegraph
- d. the development of weather maps
- e. hundreds of years before the birth of Christ

## True-False

- \_\_\_ 1. Over the last 100 years, the concentration of CO<sub>2</sub> in the earth's atmosphere has been increasing.
- \_\_\_ 2. Chlorofluorocarbons enter the atmosphere mainly through the decay of vegetation.
- \_\_\_ 3. Water vapor is a gas.
- \_\_\_ 4. The air temperature at the tropopause is warmer than the average air temperature measured at the earth's surface.
- \_\_\_ 5. The two most abundant gases in the stratosphere are nitrogen and oxygen.
- \_\_\_ 6. About half of all the molecules in our atmosphere are below an altitude of about 5.5 kilometers or 18,000 feet.
- \_\_\_ 7. A north wind blows from the south.
- \_\_\_ 8. Generally, weather in the middle latitudes moves from east to west.
- \_\_\_ 9. In the Northern Hemisphere, surface winds tend to blow clockwise and outward around an area of high pressure.
- \_\_\_ 10. The atmosphere is compressible. This means that air pressure decreases at a constant rate from the surface to the top of the atmosphere.
- \_\_\_ 11. The atmospheric concentration of carbon dioxide (CO<sub>2</sub>) is generally higher in summer than in winter.
- \_\_\_ 12. The highest level of the ionosphere is called the D region.
- \_\_\_ 13. In the middle latitudes a pressure of 500 millibars would normally be found at an altitude near 5500 meters or about 18,000 feet.
- \_\_\_ 14. In the upper atmosphere, the mean free path of atoms and molecules decreases with increasing altitude.
- \_\_\_ 15. A change in air density above an area can bring about a change in surface air pressure.
- \_\_\_ 16. The unit of pressure most commonly found on a surface weather map is inches of mercury.
- \_\_\_ 17. The change of state of water vapor into a liquid is called condensation.
- \_\_\_ 18. Another name for a middle latitude cyclonic storm is extratropical cyclone.