**Weather & Climate** (p. 789 – 795)

**I. Fronts & Severe Weather**

**1. Define the term air masses.**

Air Masses –

**2. Define the term front.**

Front –

**3. What are three results of a front passing through an area?**

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**4. Match the type of front with how it forms.**

1. \_\_\_\_\_\_\_\_ Cold Front A. A moving warm air mass overtakes a slowly moving cold air mass.

2. \_\_\_\_\_\_\_\_ Warm Front B. A warm air mass is caught between two cooler air masses.

3. \_\_\_\_\_\_\_\_ Stationary Front C. A rapidly moving cold air mass runs into a slowly moving warm air mass.

4. \_\_\_\_\_\_\_\_ Occluded Front D. A cold air mass and a warm air mass meet and remain stalled over an area.

**5. Circle the letter of the type of clouds in which thunderstorms form.**

a. Cumulus

b. Nimbus

c. Nimbostatus

d. Cumulonimbus

**6. A sudden energy discharge between parts of a cloud, between nearby clouds, or between**

**a cloud and the ground is called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.**

**7. Circle the letter of each sentence that is true about thunder.** *(Not in the book.)*

a. It causes lightning to occur.

b. You hear it after you see the lightning that caused it.

c. It occurs because lightning heats the air.

d. It occurs because light travels faster than sound.

**8. Define the term tornado.**

Tornado –

**9. Circle the letter of each sentence that is true concerning tornadoes.**

a. Tornadoes are most likely in the spring and early summer.

b. Tornadoes occur often in the Midwestern United States.

c. Tornadic wind speeds can reach 310 miles / hour.

d. Tornadoes occur more often in the United States than in any other country.

**10. Where is the safest place to be during a tornado?**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**11. Match each type of storm with the correct definition or location .**

1. \_\_\_\_\_\_\_\_ Hurricane A. Tropical storm in the western Pacific Ocean.

2. \_\_\_\_\_\_\_\_ Cyclone B. Tropical storm in N. America and Caribbean.

3. \_\_\_\_\_\_\_\_ Typhoon C. Develops into hurricanes.

4. \_\_\_\_\_\_\_\_ Tropical Depression D. Tropical storm in the Indian Ocean.

**12. Circle the letter of each sentence that is true about hurricanes.**

a. It develops from a tropical depression.

b. It has winds less than 73 miles / hour.

c. The calm center of a hurricane is called the eye.

d. It loses strength over land.

**13. Hurricanes do not last as long as other storms.** *(Not in the book.)*

Circle One : True False

**II. Climate**

**1. Define the term climate.**

Climate –

**2. Regions close to the equator receive the most solar radiation.**

Circle One : True False

**3. What causes seasons on Earth?**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**4. Explain how a rain shadow effect is an example of topography affecting climate.**

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**5. List three long-term changes that alter Earth’s climates.**

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_