

Meteorology Study Guide (Chaps 18, 19, and 20)

Vocabulary: (Use your book to find the definitions)

Coriolis Effect
Precipitation
Evaporation
Condensation
Humidity
Relative humidity
Saturated air
Dew point
Orographic lifting
Front
Condensation nuclei
Cirrus
Cumulus
Stratus
Air pressure
Air mass
Front
Warm front
Cold front
Stationary front
Occluded front
Thunderstorm
Tornado
Hurricane

Questions:

1. Current, short-term variations in the atmosphere are referred to as _____.

- a. humidity
- b. lapse rate
- c. **weather**
- d. the ionosphere

2. The Coriolis effect is due to the _____ of Earth.

- a. revolution
- b. **rotation**
- c. shape
- d. density

3. Low-pressure systems are usually associated with _____ weather.

- a. cold and dry
- b. **cloudy and rainy**
- c. sunny and dry
- d. warm and humid

4. Lines on a map that connect points of equal or constant temperatures are called _____.

- a. boundaries
- b. **isotherms**
- c. fronts
- d. station models

5. Lines on a map that connect points of equal or constant pressures are called _____.

- a. boundaries
- b. **isobars**
- c. fronts
- d. station models

6. Areas where isobars are closer together indicate _____.

7. Match each item with the correct type of air mass. (mT, mP, cT, or cP)

- | | |
|--------------------------|-----------------------------|
| a. warm and humid | c. cool and humid |
| maritime tropical | maritime polar |
| b. cold and dry | d. warm and dry |
| continental polar | continental tropical |

8. Match each item with the correct statement below.

- | | |
|----------------------|----------------------------|
| i. trade winds | iii. prevailing westerlies |
| ii. polar easterlies | iv. jet streams |
-
- a. Systems that lie between the poles and about 60° latitude in both hemispheres
Polar easterlies
 - b. Narrow bands of fast, high-altitude westerly winds
Jet streams
 - c. Winds occurring between 30° north and south latitude and the equator
Prevailing westerlies
 - d. Winds that flow between 30° and 60° north and south latitude
Polar easterlies

9. Would a six-month period with no rain in a place that usually gets plentiful rainfall be considered a weather phenomenon or a climate phenomenon?
climate

10. Describe how a cool, dry air mass can modify into a warm, moist air mass.

Moves over a warm water source. Air takes on the temperature and moist of the surface it lies over.

11. Compare and contrast the characteristics of a high pressure system and a low pressure system.

High pressure = clear conditions; low pressure = rainy conditions

12. Compare and contrast air masses and fronts.

Answer Meteorology Short Study Guide

Elite Aviation Solutions

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