

### Question 1

Planetary scale flow such as trade-winds are best classified as:

- A) microscale.
- B) mesoscale.
- C) synoptic.
- D) macroscale.

Answer: <https://biology-forums.com/index.php?topic=619865>

### Question 2

Inversions aloft are often developed in association with sinking air that characterizes slow-moving centers of high pressure.

True or False?

Answer: <https://biology-forums.com/index.php?topic=620625>

### Question 3

Which of the following data is not plotted on a weather chart?

- A) dew-point temperature
- B) sky cover
- C) cloud height
- D) solar radiation
- E) temperature

Answer: <https://biology-forums.com/index.php?topic=620462>

### Question 4

The troposphere is most likely to be thickest:

- A) over the North Pole.
- B) over the Arctic Circle.
- C) over the equator.
- D) at about 45 degrees north and 45 degrees south.
- E) over the South Pole.

Answer: <https://biology-forums.com/index.php?topic=619080>

### Question 5

Meteorological conditions are important in air pollution episodes since they

- A) control the emission of pollutants.
- B) determine the location of sources.
- C) determine the amount of dilution.
- D) are important sources of pollutants.

Answer: <https://biology-forums.com/index.php?topic=620581>

### Question 6

Downstream from a ridge aloft, the wind direction is northwest.

True or False?

Answer: <https://biology-forums.com/index.php?topic=620185>

### Question 7

High air pressure zones are usually associated with:

- A) converging winds.
- B) stormy weather.
- C) ascending currents.
- D) relatively dry conditions.

Answer: <https://biology-forums.com/index.php?topic=619808>

### Question 8

It is generally considered safe to talk on the phone during a lightning storm, as long as it is a corded telephone.

True or False?

Answer: <https://biology-forums.com/index.php?topic=620313>

### Question 9

Which of the following associations is CORRECT?

- A) thermosphere — high heat
- B) mesosphere — begins at a height of 50 km
- C) troposphere — positive lapse rate
- D) stratosphere — coldest temperatures in the atmosphere

Answer: <https://biology-forums.com/index.php?topic=619073>

### Question 10

Most precipitation from thunderstorms originates through the collision-coalescence process.

True or False?

Answer: <https://biology-forums.com/index.php?topic=620303>

### Question 11

An air mass is a body of air with:

- A) very low humidity in its lower layers.
- B) very high pressure everywhere.
- C) similar values of temperature and moisture in the horizontal.
- D) at least two frontal zones.
- E) equal density throughout.

Answer: <https://biology-forums.com/index.php?topic=619993>

### Question 12

What is the fundamental cause of horizontal pressure differences in the atmosphere?

Answer: <https://biology-forums.com/index.php?topic=619859>

### Question 13

As an object cools, the wavelengths of its maximum radiation shorten.

True or False?

Answer: <https://biology-forums.com/index.php?topic=619326>

### Question 14

Hurricanes develop most often in the late summer when ocean waters have reached what temperature?

- A) 50 °F
- B) 80°F
- C) 60°F
- D) 70°F
- E) 100°F

Answer: <https://biology-forums.com/index.php?topic=620363>

### Question 15

The atmosphere is \_\_\_\_\_ to terrestrial radiation that has a wavelength between 8 and 11 micrometers.

- A) reflective
- B) absorptive
- C) conductive
- D) transparent

Answer: <https://biology-forums.com/index.php?topic=619274>

### Question 16

In the wet tropics:

- A) the annual temperature range usually exceeds daily temperature ranges.
- B) daily and annual temperature ranges are nearly identical.
- C) the warmest month is always June or July.
- D) daily temperature ranges usually exceed the annual temperature range.

Answer: <https://biology-forums.com/index.php?topic=620776>

### Question 17

Describe the surface wind direction and the winds aloft direction for the northern hemisphere on a non-rotating Earth. Assume a smooth, uniform Earth.

Answer: <https://biology-forums.com/index.php?topic=619977>

### Question 18

Volatile organic compounds:

- A) can occur naturally.
- B) are created primarily by the burning of coal.
- C) consist of carbon, nitrogen and oxygen.
- D) pose the greatest danger of all the primary pollutants.

Answer: <https://biology-forums.com/index.php?topic=620562>

### Question 19

A major part of the greenhouse effect is that it involves the absorption of the earth's outgoing radiation by atmospheric gases. What component is most important in this absorption?

- A) oxygen
- B) nitrogen
- C) carbon dioxide
- D) water vapor

Answer: <https://biology-forums.com/index.php?topic=620698>

### Question 20

Which of these is NOT a process by which air masses are modified?

- A) calm winds
- B) lifting over mountains
- C) evaporation of water
- D) cooling from below
- E) heating from below

Answer: <https://biology-forums.com/index.php?topic=620016>