

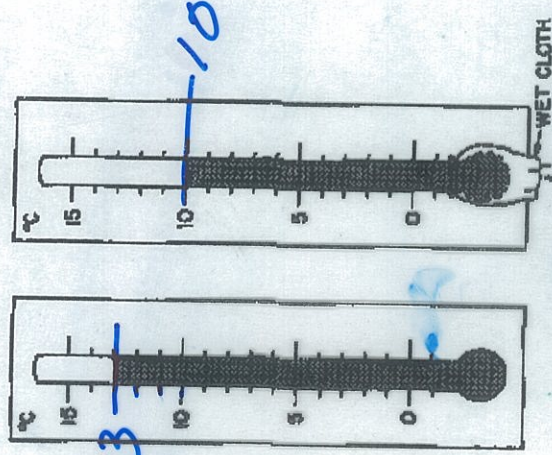
# Dew Point

is the temperature at which the water vapor in the air fills to capacity and will begin to condense (change from a gas to a liquid).

FACT: Air  $\neq$  Dew precip.

#7

The two thermometers below show the dry-bulb and wet-bulb temperatures of the air.



According to the dewpoint temperature chart in the *Earth Science Reference Tables*, what is the approximate dewpoint temperature of the air?

- (1) -25°C
- (2) 7°C
- (3) 3°C
- (4) 4°C

#8

Base your answer to the following question on the *Earth Science Reference Tables*.

When the dry-bulb temperature is 14°C and the wet-bulb temperature is 8°C, the relative humidity is

- (1) 6%
- (2) 22%
- (3) 25%
- (4) 41%

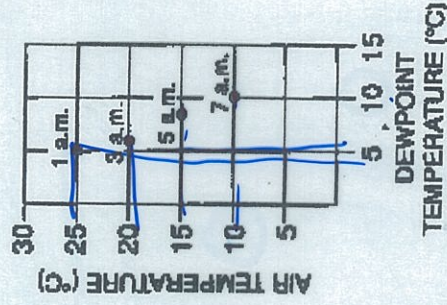
Most of the water vapor in the atmosphere is found in the

- (1) mesosphere
- (2) thermosphere
- (3) troposphere
- (4) stratosphere

P.A

#10

The graph below shows the air temperature and dewpoint temperature at one location at four different times during one morning.

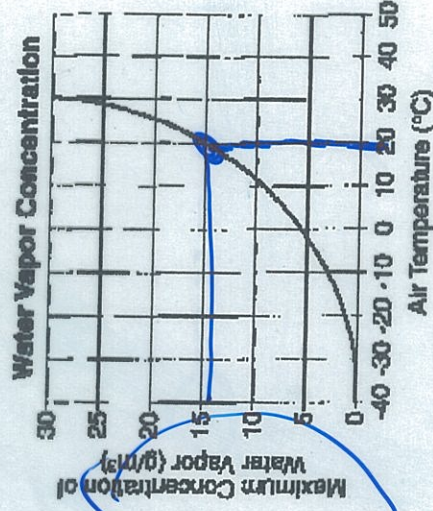


At what time was the chance of precipitation the greatest?

- (1) 1 a.m.
- (2) 5 a.m.
- (3) 3 a.m.
- (4) 7 a.m.

#11

The graph below shows the maximum possible amounts of water vapor that air can hold at different temperatures.



What is the approximate maximum amount of water vapor that a cubic meter of air can hold at 20°C?

- (1) 15 g
- (2) 20 g
- (3) 25 g
- (4) 30 g