

Question N 1

Correct Answer – D

DEW POINT TEMPERATURE

The dew point is the temperature the air needs to be cooled to (at constant pressure) in order to achieve saturation (= a relative humidity (RH) of 100%). In simple words, it is the temperature at which the air can no longer "hold" all of the water vapour which is mixed with it - and some of the water vapour must condense into liquid water.

- **The dew point is always lower than (or equal to) the air temperature =>** If the air temperature cools to the dew point, or if the dew point rises to equal the air temperature, then dew, fog or clouds begin to form. At this point where the dew point temperature equals the air temperature, the relative humidity is 100%.

Question N 2

Correct Answer – B

Note that the question states the air is saturated, meaning that, for a given temperature, air is holding the maximum amount of water vapour.

The capacity of air to hold water vapour is determined by its temperature. If the temperature is lowered => the air is capable of holding less water => some water will condense. However, Relative Humidity remains 100%.

- **Water vapour depends on the amount of water the air is holding. As temperature is lowered, some water vapour will condense => Therefore, water vapour decreases.**

Question N 3

Correct Answer – D

DEW POINT TEMPERATURE

Warmer air can hold more water vapour than cold air. It can be imagined that a warm parcel of air is a bigger bucket than a cold parcel of air.

The dew point is the temperature the air needs to be cooled to (at constant pressure) in order to achieve saturation (= a relative humidity (RH) of 100%). In simple words, it is the temperature at which the air can no longer "hold" all of the water vapour which is mixed with it (the bucket has shrunk) - and some of the water vapour must condense into liquid water. The dew point is always lower than (or equal to) the air temperature.

- **Increasing air temperature has no effect on dew point. Decreasing air temperature also does not have any effect on dew point, until dew point**

Meteorology Packet Answers

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