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ACADEMY**

PYQs on Temperature Distribution & Heat Budget



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Statement I :

The decrease of air temperature with increasing altitudes in the atmosphere is called the vertical temperature gradient.

Statement II :

In Troposphere, air temperature decreases with increasing altitude due to radiation from the Earth.

- (a) Both the statements are individually true and Statement II is the correct explanation of Statement I
- (b) Both the statements are individually true but Statement II is **not** the correct explanation of Statement I
- (c) Statement I is true but Statement II is false
- (d) Statement I is false but Statement II is true



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Which one of the following statements is **not** correct?

- (a) Temperatures decrease from the equator to poles
- (b) Temperatures in equatorial regions change substantially from January to July
- (c) Large land masses located in the subarctic and arctic zones develop centres of extremely low temperatures in winter
- (d) Highlands are always colder than surrounding low lands



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Which one of the following statements about temperature is correct?

- (a) Temperature decreases with height in the stratosphere.
- (b) Temperature is constant at different heights in the stratosphere.
- (c) Temperature increases with height in the troposphere at an average rate of 6.5°C per kilometre.
- (d) Temperature decreases with height in the troposphere at an average rate of 6.4°C per kilometre.



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