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AIR POLLUTION

SELF-ASSESSMENT TEST

LESSON 3

State whether each of the following statements about **Dispersion of Air Pollution** is True (T) or False (F)

1	If the temperature varies linearly with height between 296 К (ground) and 289 К (420 m), this layer of the atmosphere is superadiabatic	T	F
2	Exhaust gases leaving the top of stacks rise higher than the stack top when their density is lower than the density of the surrounding air	T	F
3	Thermal turbulence is caused by physical obstructions such as hills, mountains or buildings	T	F
4	In stable atmospheres pollutants do not rise and sink vertically; they fan out horizontally	T	F
5	Atmospheric Boundary Layer extends from the surface to between 10-11 km altitude	T	F
6	Unstable conditions mostly develop on sunny days with low wind speeds where strong insolation is present	T	F
7	Wind tunnel experiments are very useful tools to assess global air pollution problems	T	F
8	The disadvantage in using models based on random trajectories is that require long and high-quality meteorological and air quality databases	T	F
9	Box models extrapolate the results obtained in wind tunnels	T	F
10	The Gaussian plume model is a diffusion model	T	F