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Prelims PYQ, Mains model answers, and copy evaluation. Write to the desk for this paper, a doubt, or the AI waitlist.

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Q17

Troposphere is a very significant atmospheric layer that determines weather processes. How?

UPSC Civil Services Mains 2022 · GS I · 15 marks · World's Physical Geography

Salient features of world's physical geography.

Facts & figures for this PYQ only.

Numbers move. Confirm the latest Budget, Economic Survey or census round. This sheet is for revision, not a substitute for the model answer.

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Tropopause

Lid at the top of the troposphere that limits most weather's vertical escape.

Environmental lapse rate

Typical fall of temperature with height that permits rising, cooling parcels to condense.

Tropical depth

A deeper troposphere near the equator than near the poles.

Jet stream

Fast upper-tropospheric wind that steers mid-latitude weather systems.

Monsoon moisture

Water vapour in the Indian-ocean troposphere that becomes seasonal rain over the subcontinent.

Latent heat

Heat released when vapour condenses, which fuels thunderstorms and cyclones.

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