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Q7

Discuss in detail the photochemical smog emphasizing its formation, effects and mitigation. Explain the 1999 Gothenburg Protocol.

UPSC Civil Services Mains 2022 · GS III · 10 marks · Indian Economy

Indian Economy and issues relating to planning, mobilization of resources, growth, development and employment.

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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Photochemical smog

Oxidising haze of ozone, PAN and aldehydes from NO_x + VOC + sunlight; distinct from sulphurous winter fog.

PAN

Peroxyacyl nitrates: secondary photochemical products that irritate eyes and can transport NO_x downwind.

Gothenburg Protocol 1999

CLRTAP protocol setting national emission ceilings for S, NO_x, NH₃ and VOCs to limit acid rain, eutrophication and ozone.

CLRTAP 1979

UNECE Convention on Long-Range Transboundary Air Pollution; Gothenburg is one of its protocols.

Bharat Stage norms

Indian vehicle emission standards that cut NO_x and VOC precursors of ozone.

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