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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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Q6

Define mantle plume and explain its role in plate tectonics.

UPSC Civil Services Mains 2018 · GS I · 10 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.

<https://wrapexams.com/upsc/mains-answers/gs-1/2018/define-mantle-plume-and-explain-its-role-in-plate-tectonics/>

Mantle plume

Proposed narrow upwelling of hot mantle, often from near the core-mantle boundary.

Hawaiian-Emperor chain

Age-progressive volcanic line used as a type hotspot track on the Pacific plate.

Deccan Traps

Late Cretaceous-Palaeogene flood basalts of western India, linked to the Reunion hotspot.

Large igneous province

Huge, short-lived basalt outpouring often tied to a plume head.

Afar / Ethiopia

Region where plume-related volcanism meets the East African and Red Sea rifts.

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