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Q3

Consider the following : 1. Pyroclastic debris 2. Ash and dust 3. Nitrogen compounds 4. Sulphur compounds How many of the above are products of volcanic eruptions ? (a) Only one (b) Only two (c) Only three (d) All four Official key: D.

UPSC Civil Services Prelims 2024 · General Studies · 2 marks · Geography

Physical, Indian and world geography - Prelims GS Paper I.

Explanation

(a)

Only one. All four listed products come out of eruptions.

(b)

Only two. Under-counts.

(c)

Only three. Nitrogen compounds are also volcanic gases.

(d) Official key

All four. Pyroclasts, ash, nitrogen and sulphur compounds.

Summary

Official key is (d) all four. Eruptions throw pyroclastic debris, ash and dust, and gases that include sulphur compounds (SO₂, H₂S) and nitrogen compounds (N₂, NO_x traces). None of the four is alien to volcanism.

Related possible facts

These can be asked in a future Prelims paper.

Pyroclastic flow

Hot mix of gas, ash and rock fragments racing down a volcano.

Volcanic SO₂

Can form sulphate aerosols and cool climate after large eruptions.

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