

WRAP Exams · wrapexams.com

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

ask@wrapexams.com · +91 85951 84903 · wrapexams.com

Q27

In case of which one of the following biogeochemical cycles, the weathering of rocks is the main source of release of nutrient to enter the cycle? (a) Carbon cycle (b) Nitrogen cycle (c) Phosphorus cycle (d) Sulphur cycle Official key: C.

UPSC Civil Services Prelims 2021 · General Studies · 2 marks · Environment and Ecology
Environment, ecology, climate, biodiversity - Prelims GS Paper I.

Explanation

(a)

Carbon. Atmosphere and photosynthesis, not rock weathering as the main entry.

(b)

Nitrogen. Atmosphere + fixation.

(c) Official key

Phosphorus. No gaseous stock; weathering of phosphate rock feeds the cycle.

(d)

Sulphur. Atmosphere and volcanoes as well as rock.

Summary

- **Official key is (c) phosphorus. The phosphorus cycle is sedimentary:** weathering of rocks is the main natural input. C, N and S have large air pathways.

Related possible facts

These can be asked in a future Prelims paper.

Phosphorus cycle

Apatite weathering; no stable gas phase.

Guano / phosphate rock

The mined stock.

WRAP Exams · Write. Read. Analyse. Practice. · <https://wrapexams.com/upsc/prelims/gs/2021/in-case-of-which-one-of-the-following-biogeochemical-cycles-the-weathering-of-rocks-is-the-main-source-of-release-of-nutrient-to-enter-the-cycle/> · ask@wrapexams.com · wrapexams.com