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Q15

On June 21 every year, which of the following latitude(s) experience(s) a sunlight of more than 12 hours ? 1. Equator 2. Tropic of Cancer 3. Tropic of Capricorn 4. Arctic Circle Select the correct answer using the code given below : (a) 1 only (b) 2 only (c) 3 and 4 (d) 2 and 4 Official key: D.

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

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

Explanation

(a)

1 only. Equator has about 12 hours all year.

(b)

2 only. **Arctic Circle** is also in continuous / very long day on 21 June.

(c)

3 and 4. Tropic of Capricorn has its short day on 21 June.

(d) Official key

2 and 4. Tropic of Cancer and **Arctic Circle** have more than 12 hours on 21 June.

Summary

Official key is (d) 2 and 4. On 21 June the Northern Hemisphere has its longest day. The Tropic of Cancer has more than 12 hours of daylight; the **Arctic Circle** has 24-hour sun. The equator stays near 12 hours. The Tropic of Capricorn has its winter short day. So only 2 and 4.

Related possible facts

These can be asked in a future Prelims paper.

Summer solstice

Sun overhead at Tropic of Cancer; ~21 June.

Arctic Circle

66½°N; midnight sun around the June solstice.

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