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Q99

Consider the following statements: 1. Jet streams occur in the Northern Hemisphere only. 2. Only some cyclones develop an eye. 3. The temperature inside the eye of a cyclone is nearly 10°C lesser than that of the surroundings. Which of the statements given above is/are correct? (a) 1 only (b) 2 and 3 only (c) 2 only (d) 1 and 3 only Official key: C.

UPSC Civil Services Prelims 2020 · General Studies · 2 marks · Geography
Physical, Indian and world geography - Prelims GS Paper I.

Explanation

(a)

1 only. Jet streams exist in both hemispheres.

(b)

2 and 3 only. The eye is warmer, not ~10°C colder.

(c) Official key

2 only. Only intense tropical cyclones develop a clear eye. Jets are both hemispheres; the eye is a **warm core**.

(d)

1 and 3 only. Both fail.

Summary

Official key is (c) 2 only. An eye forms in organised, intense cyclones, not in every low. Jet streams fly in both hemispheres. Inside the eye the air is warmer than the eyewall, not ten degrees colder.

Related possible facts

These can be asked in a future Prelims paper.

Warm core

Subsidence in the eye; highest T aloft.

STJ / PFJ

Jets in both hemispheres.

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