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Q4

Discuss the consequences of climate change on the food security in tropical countries.

UPSC Civil Services Mains 2023 · GS I · 10 marks · Geophysical Phenomena

Important Geophysical phenomena such as earthquakes, tsunami, volcanic activity, cyclone etc., geographical features and their location-changes in critical geographical features (including water-bodies and ice-caps) and in flora and fauna and the effects of such changes.

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.

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Four pillars of food security

Availability, access, utilisation, and stability, as used in FAO assessments.

Rice and maize heat stress

Night heat and extreme days reduce grain filling in major tropical breadbaskets.

Sahel and monsoon drylands

Regions where rainfall variability already decides whether a staple crop is harvested.

Coral bleaching and fish

Warm seas damage reefs and shift stocks that coastal tropical people eat and sell.

Public seed systems

IRRI, CIMMYT, and national bodies such as ICAR breed stress-tolerant varieties for tropical farms.

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