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**Q15****Analyze the role of satellite-based technologies in achieving climate-smart agriculture and food security in India.**

UPSC Civil Services Mains 2026 · GS I · 15 marks · Geophysical Phenomena

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Important Geophysical phenomena such as earthquakes, tsunamis, volcanic activity, cyclones 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.

**Forecasting Agricultural output using Space, Agro-meteorology and Land-based observations (FASAL)**

An operational framework under the Ministry of Agriculture utilizing space technology for pre-harvest crop acreage and production estimation.

**Indian Space Research Organisation (ISRO)**

Operates advanced earth observation satellites like RISAT and Cartosat that provide high-resolution imagery for agricultural monitoring.

**Mahalanobis National Crop Forecast Centre (MNCFC)**

An institution established under the Ministry of Agriculture for operationalizing space-based crop forecasting and drought assessment.

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