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Q11

What do you understand by "Standard Positioning System" and "Precision positioning system" in the GPS era? Discuss the advantage India perceives from its ambitious IRNSS programme employing just seven satellites.

UPSC Civil Services Mains 2015 · GS III · 12 marks · Indian Economy

Indian Economy and issues relating to planning, mobilization of resources, growth, development and employment.

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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SPS and PPS

GPS Standard Positioning Service is civilian and open; Precise Positioning Service is encrypted for authorised military users.

IRNSS / NavIC

Indian Regional Navigation Satellite System, a seven-satellite regional constellation later branded NavIC.

Orbit mix

Three geostationary and four geosynchronous satellites give continuous regional coverage without a 24-satellite global fleet.

Coverage

Designed for India and a region of about 1,500 km around it, not for worldwide aviation as GPS is.

Restricted Service

Encrypted IRNSS service for authorised Indian users, analogous in purpose to GPS PPS.

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