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Daily news summary**Gaganyaan Crew Escape System ISRO**

UPSC Civil Services · 23 August 2026 · Prelims and Mains

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WHY IN NEWS

- ISRO detailed safety mechanisms for the Gaganyaan human spaceflight mission, focusing on the Crew Escape System.

WHAT IS THE CREW ESCAPE SYSTEM (CES)?

- Safety architecture designed to pull the Crew Module away from the launch vehicle during abort scenarios on the launchpad or during ascent.
- Utilises a 'puller' engine motor configuration attached above the crew module to ensure rapid distance separation within milliseconds.

KEY OPERATIONAL DETAILS

- Automated detection systems sense vehicle anomalies and trigger solid-fuel abort motors autonomously.
- Tested through ISRO's Pad Abort Test (PAT) and Test Vehicle Abort Missions (TV-D1) to validate aerodynamic stability and deceleration parachutes.

KEY TERMS

- **Puller Design:** An abort system configuration mounted atop a rocket that pulls the crew capsule upward away from an exploding launch vehicle.

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PRELIMS FACTS

- ISRO's Gaganyaan Crew Escape System employs a high-altitude puller mechanism driven by solid propellant motors.

KEY DATA

- **Implementing Agency:** ISRO - India's space agency responsible for indigenous design of human-rated space systems.

[Official source](#)

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