GENERAL SCIENCE 30 July 2026

Gaganyaan Mission: Astronaut Training On Track for 2027 Launch

Union Minister Jitendra Singh informed the Lok Sabha that preparations for ISRO's G1 uncrewed Gaganyaan mission are currently in progress.

India's premier human spaceflight programme designed to send a three-member crew into Low Earth Orbit.

KEY EXAM POINTS

- Union Minister **Jitendra Singh** confirmed in Parliament that active preparations are under way for the **G1** uncrewed mission.
- The **Gaganyaan** programme involves conducting **three uncrewed missions** prior to launching the final crewed flight.
- India's maiden crewed **human spaceflight** mission is scheduled for launch in **2027**.
- Selected astronaut candidates, termed **Ganganyatris**, are currently undergoing spaceflight training in **Bengaluru**.
- **ISRO** Chairman **V. Narayanan** stated that minor operational adjustments in uncrewed tests will not shift the 2027 crewed flight schedule.

DID YOU KNOW..!?

The Gaganyaan mission will utilize ISRO's heavy-lift launch vehicle **LVM3** (Launch Vehicle Mark-3) to reach a **400 km** orbit.

ISRO developed the half-humanoid robot **Vyommitra** to fly aboard uncrewed Gaganyaan tests and monitor microgravity systems.

Indian Air Force test pilots completed foundational spaceflight training at Yuri Gagarin Cosmonaut Training Center in Star City, **Russia**.

Wing Commander **Rakesh Sharma** became the first Indian citizen in space aboard the Soviet spacecraft **Soyuz T-11** on **April 3, 1984**.

Indian Space Research Organisation (**ISRO**) was established on **August 15, 1969**, and is headquartered in **Bengaluru**.

Vikram Sarabhai Space Centre (**VSSC**) in **Thiruvananthapuram** functions as ISRO's lead centre for rocket launch vehicle development.

UR Rao Satellite Centre (**URSC**) in **Bengaluru** is the lead centre for satellite design, building, and testing in India.

REVISION FLASHCARD

India's maiden human spaceflight Gaganyaan is scheduled for 2027 following three uncrewed test missions.

Syllabus Relevance: High relevance for Group 1, 2, 2A, and 4 exams under General Science Unit 1 & Current Events Unit 2.

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