

ISRO Successfully Tests Gaganyaan Crew Module Systems

ISRO successfully conducted three major tests of the Gaganyaan crew module systems on July 12, 2026.

Gaganyaan is India's human spaceflight mission, aiming to send astronauts into space and safely return them to Earth.

KEY EXAM POINTS

- The **Indian Space Research Organisation (ISRO)** successfully carried out **three major tests** of the **Gaganyaan crew module systems**.
- These tests were conducted on **Sunday, July 12, 2026**.
- One test involved the separation of the '**umbilical mechanism**' linking the **crew module** and **service module**.
- The **crew module** is where **astronauts** live, while the **service module** provides **propulsion**.
- Another test ensured the **upright position** for the **crew module** after **splashdown** in the sea.
- Ensuring the crew module's **upright position** after splashdown is considered a **critical crew safety** requirement.

STATICS & SYLLABUS FOCUS

ISRO (Indian Space Research Organisation) was established in **1969**.

ISRO's headquarters are located in **Bengaluru, Karnataka**.

Gaganyaan is India's **first indigenous human spaceflight mission**.

The mission aims to send **three Indian astronauts** to an orbit of **400 km** for a **three-day mission**.

The **Gaganyaan mission** will use the **Geosynchronous Satellite Launch Vehicle Mark III (GSLV Mk III or LVM3)** as its launch vehicle.

URSC (U R Rao Satellite Centre) is an **ISRO** centre responsible for **satellite design and development**.

YUVIKA is ISRO's **Young Scientist Programme**, designed to impart basic knowledge on **space technology** to school students.

REVISION FLASHCARD

ISRO successfully tested Gaganyaan crew module systems on July 12, 2026, crucial for astronaut safety.

Syllabus Relevance: High

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