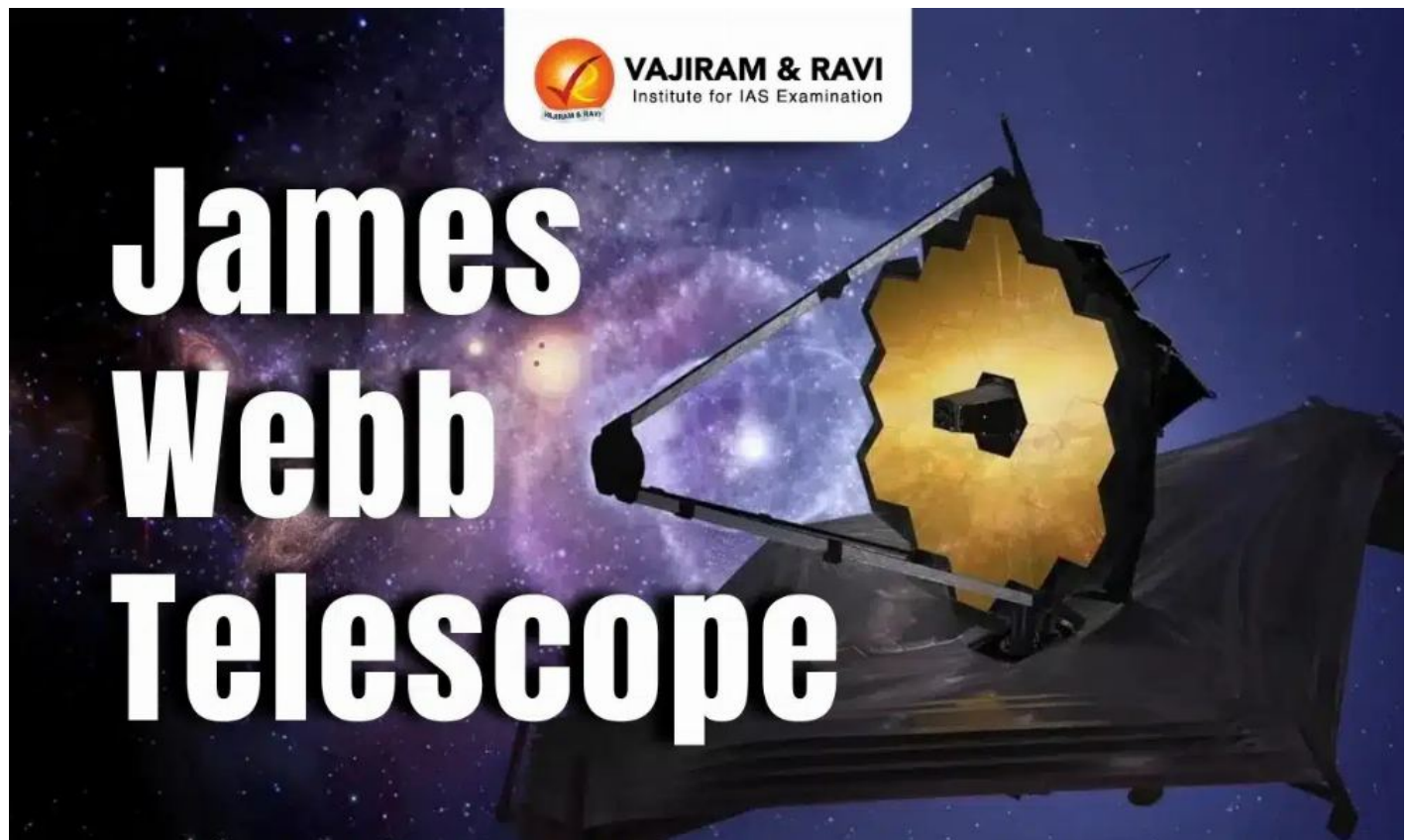


James Webb Space Telescope

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James Webb Space Telescope Latest News

Recently, the NASA James Webb Space Telescope (JWST) captured the weather of an exoplanet which is nearly 700 light-years away.

About James Webb Space Telescope

- It was launched in December 2021.
- It is the largest and **most powerful space observatory** built through collaboration between **NASA, European Space Agency (ESA), and Canadian Space Agency (CSA)**.
- JWST orbits the **L2 Lagrange Point**, about 1.5 million km beyond Earth, enabling a stable position for deep-space observation.
- The telescope **operates primarily in the infrared spectrum** and is equipped with components such as:
 - **Optical Telescope Element (OTE)**: It collects light from distant objects.
 - **Integrated Science Instrument Module (ISIM)**: It houses all cameras and instruments.
 - **Sunshield**: It protects sensitive instruments from solar radiation.

- **Spacecraft Bus:** It provides necessary operational support.

Objectives of James Webb Space Telescope

- To **look for galaxies** that formed just after the Big Bang.
- To **determine the evolution of galaxies** from their creation to the present.
- To **examine the stages of star creation** till the formation of planetary systems.
- To investigate the **potential for life in planetary systems** by measuring their physical and chemical features.

Source: TH

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