

WRAP Exams • wrapexams.com

Prelims PYQ, Mains model answers, and copy evaluation. Write to the desk for this paper, a doubt, or the AI waitlist.

ask@wrapexams.com • **+91 85951 84903** • wrapexams.com

Daily news summary**Nancy Grace Roman Space Telescope NASA SpaceX**

UPSC Civil Services • 31 August 2026 • Prelims and Mains

[Open on wrapexams.com](https://wrapexams.com)

WHY IN NEWS

- NASA is preparing for the launch of the Nancy Grace Roman Space Telescope aboard a SpaceX rocket to map dark energy and cosmic structure.

WHAT IS THE ROMAN SPACE TELESCOPE?

- NASA's next flagship wide-field infrared space observatory designed to investigate astronomical phenomena over large sky surveys.
- Equipped with a field of view 100 times larger than the Hubble Space Telescope at similar optical resolution.
- Primary scientific objectives include studying dark energy, mapping dark matter distribution, and surveying exoplanets.

KEY TECHNOLOGICAL FEATURES

- **Wide Field Instrument:** Measures light from billions of galaxies to trace cosmic evolution and dark energy expansion.

Coronagraph Instrument: Demonstrates advanced starlight-blocking technology to image exoplanets directly.

KEY TERMS

- **Dark Energy:** A hypothetical form of energy exerting a negative pressure, accelerating the expansion of the universe.
- **Coronagraph:** An optical attachment used to block the direct light from a star to reveal faint nearby objects like planets.

PAPERS

GS3

PRELIMS FACTS

- The Roman Space Telescope operates in the infrared spectrum with a field of view 100 times wider than Hubble.
- Its primary objectives are cosmic acceleration (**dark energy**), large-scale structure (dark matter), and exoplanet demographics.

KEY DATA

- **Space Agency:** NASA - Lead agency developing and operating the Roman Space Telescope.
- **Launch Vehicle Provider:** SpaceX - Commercial launch provider contracted to deploy the observatory.

[Official source](#)

WRAP Exams · Write. Read. Analyse. Practice.

[Open on wrapexams.com](#)

ask@wrapexams.com · wrapexams.com · Revision brief. Confirm figures against the linked official source.