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

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Q15

Launched on 25th December, 2021, James Webb Space Telescope has been much in the news since then. What are its unique features which make it superior to its predecessor Space Telescopes ? What are the key goals of this mission ? What potential benefits does it hold for the human race?

UPSC Civil Services Mains 2022 · GS III · 15 marks · Indian Economy

Indian Economy and issues relating to planning, mobilization of resources, growth, development and employment.

Facts & figures for this PYQ only.

Numbers move. Confirm the latest Budget, Economic Survey or census round. This sheet is for revision, not a substitute for the model answer.

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Launch

James Webb Space Telescope launched 25 December 2021 (Ariane 5, Kourou).

L2

Sun-Earth Lagrange point 2, about 1.5 million km from Earth; stable thermal environment with a sunshield.

Primary mirror

Segmented ~6.5 m gold-coated beryllium; Hubble's primary is 2.4 m.

Agencies

NASA-led with European Space Agency and Canadian Space Agency contributions.

MIRI / NIRCam

Mid-infrared and near-infrared camera instruments central to the science payload.

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