

(Please do not write anything except the question number in this space) कृपया इस स्थान में प्रश्न संख्या के अतिरिक्त कुछ न लिखें।

UPSC

Answer Questions in NOT MORE THAN the Word Limit specified for each in the Parenthesis.
(Specimen Answer Booklet - For Practice Purpose Only)

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India Space Policy 2023 promotes the peaceful use of Space, Self-reliance in Space technology & encourages private sector participation. It also emphasises international collaboration & Sustainability in Space activities.

The development of reusable launch vehicle (RLVs) ~~also~~ aligns with this Objectives

RLVs alignment with Indian Space Policy:

① Technology Advancements.

— ISRO's Pushpak - RLV Technology Demonstrator Project

— The Lex-03 mission simulated landing conditions for vehicle returning from Space, Landing velocities exceed 320 km/h

② Cost-Effectiveness: Key goal is to reduce cost of access to Space

— Lower launch cost

— fully reusable two-stage orbital launch vehicle

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③ Enhancing Launch Capabilities:

- RLVs can potentially increase Launch frequency & Payload.
- - quick refurbish & relaunch
- testing hypersonic flight, versatile, reusable space transportation

Implications for Commercialization of Indian Space Sector

- New Business Models.
 - RLVs enable more flexible & responsive launch
- Reduce Entry Barriers: Lower costs help Startup to enter in space market
- Increased launch frequency
 - Quick turnaround times helps deployment & maintenance
- Domestic Manufacturing - drive
 - Drive demand for specialized components & materials.
- Space tourism: Not an immediate focus
But mastering RLVs technology lays groundwork for potential future in space tourism.

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The development of reusable launch vehicle is strongly align with ~~space~~ technology India Space Policy 2023 supporting goals of technological advancement, cost-effectiveness & commercialization. This alignment promise to enhance India's position in global space Economy, while fostering domestic innovation & Economic growth.