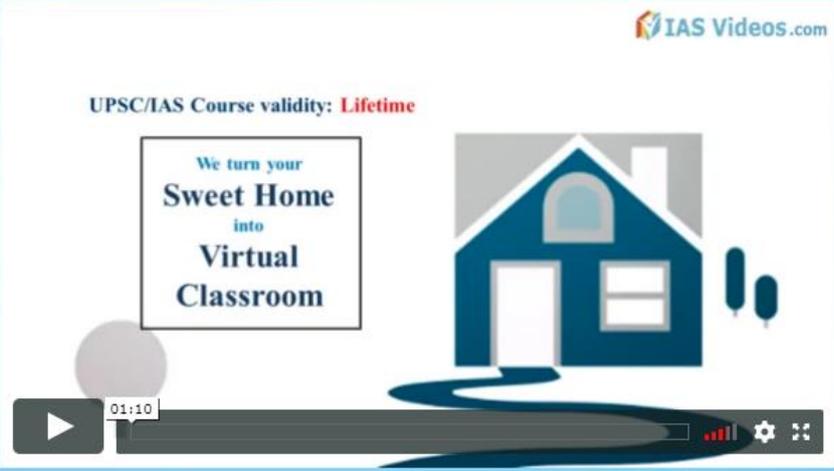


April 3rd, 2019 Sample Current Affairs

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1. India gets surveillance satellite

- What is EMISAT?
- Why India needed spy in the sky?
- What is the significance of this launch?

GS paper 3 (Awareness in space)

In this video, you can find detailed answers for all the above questions.

The above article has been retrieved from:

Madhumathi. (2019, April , 2). India gets surveillance satellite. The Hindu. Retrieved from <https://www.thehindu.com/sci-tech/technology/pslv-isro-emisat-launch-from-sriharikota-on-april-1/article26699077.ece>

What is the context about?

- The Indian Space Research Organisation (ISRO) launched India's first electronic surveillance satellite, 'EMISAT', from Sriharikota in coastal Andhra Pradesh by PSLV-C 45.
- India's PSLV-C45 successfully injected EMISAT and 28 international customer satellites into their designated orbits (4 countries [USA, Switzerland, Lithuania, Spain]) in their respective orbits.

- ❑ These nanosatellites include 20 Flock-4A satellites, 1 BlueWalker 1, 1 M6P, 1 Aistechsat-3, 1 Astrocast-2, and 4 Lemur satellites.
- ❑ It is the 47th mission of Polar Satellite Launch Vehicle (PSLV-C45). It is for the first time that ISRO injected payloads in three different orbits in a single mission.

What is EMISAT?

- ❑ EMISAT is a low-Earth orbit satellite weighing 436 kg, which aims to boost India's space surveillance capacity.
- ❑ Developed by: The satellite is jointly developed by ISRO and Defence Research and Development Organization (DRDO).
- ❑ Objective: The objective of the satellite is to measure the electromagnetic spectrum.
- ❑ Base: It is modeled after an Israeli spy satellite called SARAL (Satellite with ARgos and ALtika).
- ❑ Structuring: It is an ELINT satellite based on IMS2 Bus (Indian Mini Satellite Bus series) which can have a maximum launch weight of 450Kgs with a payload no more than 200kgs.

Why India needed spy in the sky?

- ❑ After partition, Pakistan was planning to capture Kashmir which led to the war which halter. For the same reasons, a war took place in 1965 followed by one more in 1971.

- ❑ During that war, India realized the importance of space technology in devising military plans but at that time the Indian space programme was in the nascent phase.
- ❑ During the Kargil war, India had no clue that the Pakistani Army had come well inside its territories and stood there for months.
- ❑ This revelation served as the final reminder and warning to India that Pakistan and other related activities must be watched over.

What is the significance of this launch?

- ❑ **Sniffing Enemy Radars:** This satellite will monitor and give locations for enemy radar sites deep in their territory. Till now, India was using airplanes as early warning platforms, but with this satellite, Indian will get a space-based platform to sniff out enemy radars.
- ❑ **Situational Awareness:** Space-based electronic intelligence or ELINT will further add teeth to situational awareness of the Armed Forces as it will provide location and information of hostile radars placed at the borders.
- ❑ **Helpful in Surgical Warfare:** Being capable of detecting electronic signals on the ground, will help India in surgical warfare especially to check Pakistan-sponsored terrorism.

Successful Operations: For about eight years in the making, EMISAT can be a valuable tool for India to carry out stealth

air operations in enemy territory since the satellite can detect enemy radars.

Greater Confidence: It can help Indian Air Force carry out operations with greater confidence.