





MOST IMPORTANT TOPICS

1. GREEN PROPULSION SYSTEM  **The Indian EXPRESS** GS-3, PRELIMS
2. BLUE ECONOMY 2.0  **THE HINDU** GS-3 PRELIMS
3. HONG KONG'S ARTICLE 23  **THE HINDU** GS-2, PRELIMS
4. ANTYODAYA ANNA YOJANA (AAY)  **Pib** PRELIMS

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PRELIMS PRACTISE QUESTION

Q. Aghanashini Estuary is located at-

A. Assam

B. Telangana

C. Andhra Pradesh

D. Karnataka

PRELIMS PRACTISE QUESTION

Q. Corruption Perceptions Index is released by-

- A. Oxfam International
- B. United Nations Development Programme (UNDP)
- C. Sustainable Development Solutions Network (SDSN)
- D. Transparency International

PRELIMS PRACTICE QUESTION

Q. Startup India was launched in the year-

- A. 2024
- B. 2019
- C. 2014
- D. 2016

GREEN PROPULSION SYSTEM



CONTEXT

- A Green Propulsion System, developed under the Technology Development Fund (TDF) scheme of DRDO, has successfully demonstrated in-orbit functionality on a payload launched by PSLV C-58 mission

DRDO'S ROLE

- The **Defence Research and Development Organization** (DRDO) is a crucial institution in India responsible for military research and development.
- DRDO's involvement in space defence technology underscores its dual role in both defence and space exploration.

TECHNOLOGY DEVELOPMENT FUND (TDF)

- The successful demonstration of the Green Propulsion System is a result of DRDO's **Technology Development Fund (TDF)** scheme.
- TDF, a flagship initiative under the '**Make in India**' campaign, aims to fund innovations in defense and aerospace, particularly supporting start-ups and MSMEs.

SIGNIFICANCE

- The 1N Class **Green Monopropellant thruster**, developed by Bengaluru-based start-up Bellatrix Aerospace under DRDO's guidance, has demonstrated in-orbit functionality.
- This system offers a non-toxic and environmentally friendly solution for altitude control and orbit maintenance of microsattellites in low Earth orbit.

TECHNOLOGICAL COMPONENTS

- The project encompasses various **indigenously-developed components**, including Propellant, Fill and Drain Valves, Latch Valve, Solenoid Valve, Catalyst Bed, and Drive Electronics.
- This technology is ideal for space missions with high thrust requirements.

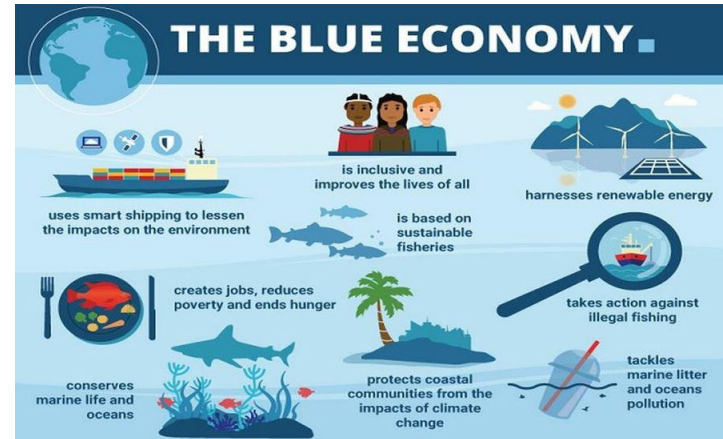
FUNCTIONALITY

- Telemetry data from the PSLV C-58 mission's Orbital Experimental Module (POEM) has been validated and found to exceed all performance parameters.
- The technology demonstrated pulsed mode and steady-state firing in a vacuum, passivation of residual propellant in outer space, and successful propellant realization.

CONCLUSION

- The successful development of this green propulsion system enhances India's capabilities in space defense technology.
- The non-toxic and eco-friendly nature of the system aligns with global efforts for sustainable space exploration.

BLUE ECONOMY 2.0



CONTEXT

- The recent **Interim Budget's** emphasis on promoting the '**blue economy**' reflects a strategic move towards sustainable use of **ocean resources** for economic growth while preserving the health of the ocean ecosystem.

- India's "Blue Economy 2.0" concentrates on specific areas such as **coastal restoration, aquaculture development, and climate-resilient activities** within the broader framework of sustainable ocean management.
- This approach recognizes the significance of India's extensive coastline, major sea trade routes, **Exclusive Economic Zone (EEZ)**, and the livelihood of over 4 million fisherfolk and coastal communities.

MEASURES TO BE IMPLEMENTED

- Measures including sustainable practices, technological innovation, skilling and capacity building, community engagement, strengthened governance, and international collaboration.

- The government has taken several steps to address these challenges, such as the Draft policy on India's **Blue Economy**, **Integrated Coastal Zone Management (ICZM) Program**, **Sagarmala Project**, **Deep Ocean Mission**, and engagement in the **Indian Ocean Rim Association (IORA)**.

PRELIMS PRACTICE QUESTION

Q. The headquarter of the Indian Ocean Rim Association (IORA) is located at –

- A. New Delhi, India
- B. Dhaka, Bangladesh
- C. Ebene, Mauritius
- D. Moroni, Comoros

HONG KONG'S ARTICLE 23



CONTEXT

- Hong Kong's government has declared a public consultation period for a proposed national security law known as Article 23.

KEY FACTS

- Article 23 is part of **Hong Kong's Basic Law**, enacted after the 1997 **handover from British colonial rule**.
- It mandates the prohibition of acts **endangering national security**.

- The proposed law, set to be incorporated into Hong Kong's mini-constitution after the end of the consultation period, will work in conjunction with the existing national security law imposed by China's **central government in 2020**.
- The proposed law will encompass five broad categories of offences: treason, insurrection, espionage, destructive activities endangering national security, and external interference.

PRELIMS PRACTICE QUESTION

Q. The Hong Kong was transferred from UK to China in the year–

- A. 1884
- B. 1994
- C. 1997
- D. 1999

ANTYODAYA ANNA YOJANA (AAY)



CONTEXT

- The Union Cabinet approved the extension of the sugar subsidy for Antyodaya Anna Yojana (AAY) families through the Public Distribution System (PDS) for an additional two years

BENEFICIARIES

- AAY households, identified as the poorest of the poor, benefit from this subsidy. These households include:
 - Homeless households
 - Manual scavengers
 - Households headed by minors, widows, or single women

PDS AND NFSA, 2013

- The Public Distribution System operates under the guidelines of the National Food Security Act, 2013, categorizing beneficiaries into two groups:
 - AAY Households: Entitled to 35 kg of food grains per household per month.
 - Priority Households (PHH): Entitled to 5 kg of food grain per person per month.

- Objective: The subsidy aims to provide nutritional support and financial relief to the most vulnerable sections of society, ensuring food security for all.

By the Officers,
For the Officers