

# **UPSC Daily Current Affairs** One Liners 02-01-2026

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## Geography

# **Southern Ocean Carbon Anomaly**

- **Definition** The term refers to the unexpected behaviour of the Southern Ocean functioning as a carbon sink in recent decades.
- **Prediction model** Climate models projected a decline in the Southern Ocean's carbon sink capacity, anticipating reduced CO<sub>2</sub> absorption or even a potential net release.
- **Observational data** Measurements since the early 2000s indicate that the Southern Ocean has absorbed more CO<sub>2</sub> than previously expected.

## **Polity & Governance**

# National Frequency Allocation Plan 2025 (NFAP-2025)

- Released by Department of Telecommunications (DoT), Ministry of Communications.
- Key Enhancements in NFAP-2025
- Identification of the 6425–7125 MHz band for International Mobile Telecommunications (IMT), significantly enhancing mid-band spectrum availability for <u>5G, 5G Advanced, and future 6G networks</u>.
- Allocation of *Ka, Q, and V bands for satellite-based services*, crucial for high-throughput Geo-Stationary Orbit (GSO) satellites and large non-GSO satellite constellations.
- Additional spectrum for *In-Flight and Maritime Connectivity (IFMC)* to ensure seamless broadband access in the air and at sea.
- Support for emerging technologies such as <u>Vehicle-to-Everything (V2X) communication</u>, <u>LEO/MEO satellite services</u>, and expanded broadband connectivity solutions.

# Prime Minister's Scheme for Mentoring Young Authors (PM-YUVA 3.0)

- Implemented by National Book Trust, India, under the Ministry of Education.
- Aligned with National Education Policy (NEP) 2020.
- **Book proposals by -** 43 young authors below the age of 30 years were selected through an All-India contest in 22 official Indian languages and English.
- Selected book proposals will be developed into books under the six-month mentorship of eminent scholars
- **Scholarship of** Rs 50,000 per month and a lifetime royalty of 10% on their published book.
- · Themes -
  - Contribution of Indian Diaspora in Nation Building,
  - Indian Knowledge System, and
  - Makers of Modern India (1950-2025).
- **Aim** To encourage young writers to contribute to nation building through their writing and ideas.

#### **Economy**

# India - 4<sup>th</sup> Largest Economy

- India has overtaken Japan to become the <u>world's fourth-largest economy</u>, with a gross domestic product (GDP) of \$4.18 trillion.
- **Real GDP growth** It reached 8.2% in the second quarter of 2025-26, compared to 7.8% in the first quarter and 7.4% in the fourth quarter of the previous fiscal year.
- **Projections** It indicate that India is likely to surpass Germany to become the third-largest economy within the next 2.5 to 3 years, with an estimated GDP of \$7.3 trillion by 2030.

### **Environment**

## Madhya Pradesh Tiger Deaths

- **55 tiger deaths in 2025** It represents the highest annual mortality since the initiation of Project Tiger in 1973.
- **Mortality Surge** In the preceding 3 years, tiger deaths numbered 46, 43, and 34, respectively, indicating an escalating trend.
- **Census 2022** Madhya Pradesh had a tiger population of 785, resulting in an <u>annual</u> mortality rate of approximately 7%.
- **Causes** Electrocution (11 out of 55 tiger deaths), road accidents, railway collisions and natural/territorial conflicts.

# **Environmental Projects in Developing Countries**

- Approved by Global Environment Facility (GEF) Council, meet in December.
- **Projects focus on -** The conservation of biodiversity, protection against climate change, recovery of lands, and ecosystem management.
- **Significance** These efforts contribute to achieving the 2030 biodiversity targets established by the *Kunming Montreal Global Biodiversity Framework*, which was adopted in 2022.

### Security

#### INS Vaghsheer

- INS Vaghsheer is the 6<sup>th</sup> and final vessel in the Kalvari-class (Scorpene-class) submarine series.
- Launched in 2022, currently undergoing sea trials.
- Name The submarine is named after the sand fish, a deep-sea predator native to the Indian Ocean.

### **Kalvari-class Submarines**

- **Type** Diesel-electric attack submarines.
- **Origin** Designed by the French naval defence and energy company DCNS, now known as Naval Group.
- **Built by -** Mazagon Dock Shipbuilders Limited (MDL) in Mumbai under a technology transfer agreement.
- **Developed as -** A part of Project 75 of the Indian Navy.
- **Features** The class includes stealth capabilities, precision-guided weapons such as torpedoes and anti-ship missiles, and advanced sonar and combat management systems.

### Science

### **Lab Grown Diamond**

- Laboratory-created diamonds are produced by replicating the natural diamond growth process.
- Manufacturing Methods
- **High-Pressure/High-Temperature (HPHT) -** This method simulates the natural conditions found deep within the Earth.
- **Chemical Vapor Deposition (CVD) -** This process involves introducing a gas mixture into a vacuum chamber to facilitate diamond growth.

# TYPES OF LAB GROWN DIAMONDS

Detail Guide about Different Type of Lab Grown Diamonds



# Simulant Diamonds

Diamond Simulants are objects or materials which resemble some features of natural diamonds.

# Types of Simulant Diamonds

#### Diamond Nexus Simulants

With better durability than Cubic Zirconia simulants, and a triple life expectancy due to their sturdy nature.

#### Cubic Zirconia Simulants

These are the cheapest diamond simulants that are generated from reacting zirconium dioxide.

#### Moissanite Lab Grown Gemstones

These gemstones simulants are synthesized from silicon carbide.

# **Cultured Diamonds**

All the ingredients of Cultured diamonds are created from scratch and are created in an environment same as in the diamond mines.

# Types of Cultured Diamonds

#### HPHT Diamonds

HPHT Synthetic Diamonds are those diamonds that have been created under "High Pressure and High Temperature'.

#### CVD Diamonds

CVD diamonds are referred to the diamonds which have been created by Chemical Vapour Decomposition.

# Index

# Reserve Bank of India (RBI) report

According to an RBI report, the number of bank fraud cases is decreasing, yet the total amount involved is increasing.

- The number of reported fraud cases declined from 36,052 in 2023-24 to 23,879 in 2024-25.
- Conversely, the total amount involved in frauds increased significantly, rising from ₹11,261 crore in 2023-24 to ₹34,771 crore in 2024-25.
- This increase is mainly attributed to the re-examination and re-reporting of 122 large fraud cases, amounting to ₹18,336 crore, following a Supreme Court judgment.
- Card and internet fraud Accounted for 66.8% of the total number of cases.
- Advance-related frauds It represented 33.1% of the total amount involved by value.
- **Private sector banks (PVBs)** Accounted for 59.3% of the total cases, with the majority involving card or internet fraud.
- **Public sector banks (PSBs)** These were responsible for 70.7% of the total amount involved, predominantly due to advance-related frauds.

