



October - 26

TNPSC BITS

- ❖ India and Japan conducted the Japan-India Maritime Exercise 2025 (JAIMEX 25) off Kyushu and at Yokosuka (Japan) to enhance capabilities, and promote a free and open Indo-Pacific.
- ❖ India unveiled the official logo and anthem for the FIDE Chess World Cup 2025 at a cultural ceremony in Panaji, Goa.
 - The World Cup will take place in North Goa from October 31 to November 27, 2025.
- ❖ Since 2009, the World Menopause Day is observed annually on October 18th to raise awareness and improve the experiences of people going through menopause.
 - The theme for 2025 is “Lifestyle Medicine in Menopausal Health”.
- ❖ Every October, National Cyber Security Awareness Month (NCSAM) is observed globally to highlight the importance of staying safe online.
 - In India, the 2025 theme is “Cyber Jagrit Bharat”, meaning a Cyber Safe India.

INTERNATIONAL NEWS

Ramanujan Research Fellowship Program



**RAMANUJAN JUNIOR RESEARCHERS
FESEARCHES PROGRAMME**
India-UK Collaboration for Young Scientists

PROGRAMME FOCUS	FUNDING & RESEARCH	HOST INSTITUTION UK
- India and UK Initiative - Enables young Indian scientists - Work in the UK	- Fuded by India's DST Engineering - For n selected PHD students) - For selected PHD students - Conduct research in the the UK	- London Institute for Mathematical Siences - Part part the the Royal Institution (LIMS) - Theotetical research & discoveries

- ❖ India and the UK launch the Ramanujan Junior Researchers Programme, which enables young Indian scientists to work in the UK.

- ❖ It is funded by India's Department of Science and Technology (DST).
- ❖ Selected PhD students will conduct research at the London Institute for Mathematical Sciences (LIMS).
- ❖ LIMS is part of the Royal Institution and is known for theoretical research and major scientific discoveries.

Kabul Mission

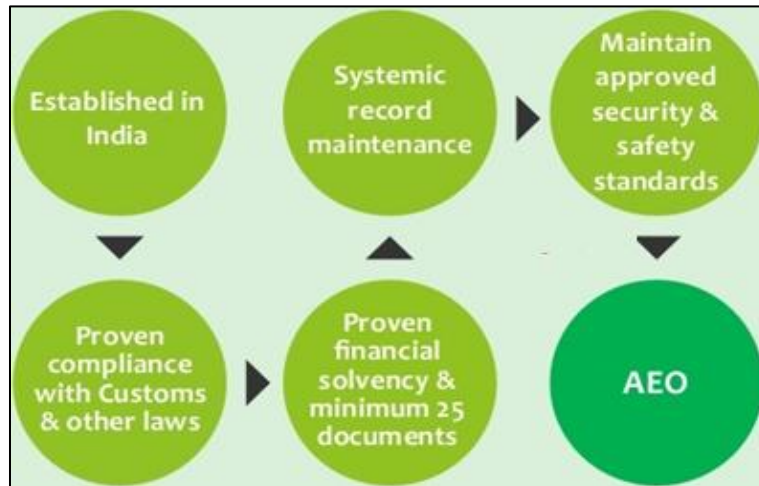


- ❖ India has upgraded its Technical Mission in Kabul, Afghanistan, to a full embassy with immediate effect.
- ❖ The move follows the recent visit of Afghanistan's acting foreign minister to India.
- ❖ A chargé d'affaires will lead the embassy until a full ambassador is appointed.
- ❖ India had closed its embassy in Kabul in August 2021 after the Taliban took power.
- ❖ The Technical Mission had been operating since June 2022 to provide humanitarian and consular assistance.

Authorised Economic Operator Programme

- ❖ The Authorised Economic Operator (AEO) Programme is a voluntary trade facilitation initiative under the World Customs Organization's (WCO) SAFE Framework.

- ❖ It was implemented by Indian Customs under the Central Board of Indirect Taxes and Customs (CBIC) on July 22, 2016.
- ❖ The programme recognises trusted traders who comply with customs laws and maintain secure international supply chains.
- ❖ It aims to enhance supply chain security, promote ease of doing business, and provide customs facilitation benefits to importers, exporters, logistics providers, and warehouse operators.
- ❖ AEO certification has three tiers: AEO-T1, AEO-T2, and AEO-T3, with additional AEO-LO for logistics and other operators.
- ❖ The programme provides faster customs clearance, deferred duty payments, global recognition through Mutual Recognition Agreements, and simplified trade compliance.



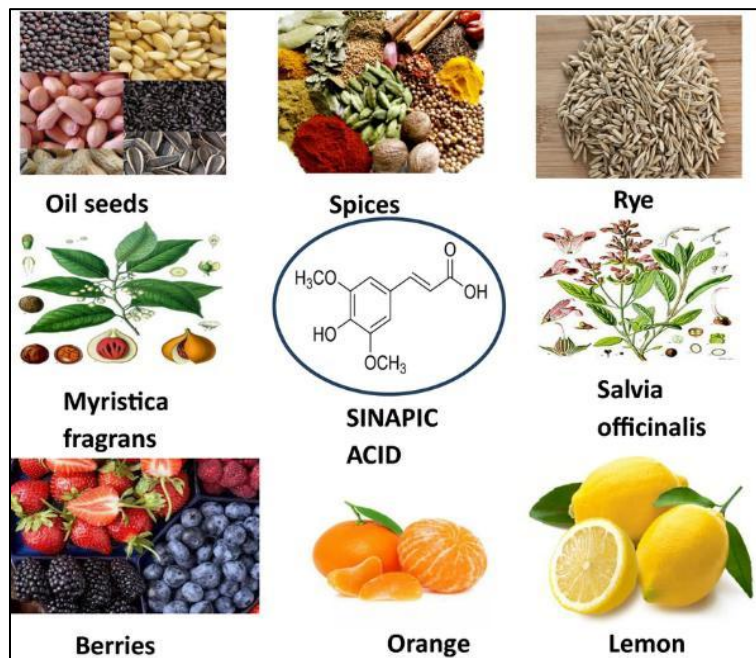
SCIENCE AND TECHNOLOGY NEWS

LCA Tejas Mk1A



- ❖ The LCA (Light Combat Aircraft) Tejas Mk1A made its maiden flight at HAL's (Hindustan Aeronautics Limited) Nashik plant.
- ❖ Defence Ministry inaugurated the third production line for LCA Mk1A and the second line for HTT-40 (Hindustan Turbo Trainer-40).
- ❖ The aircraft is powered by the F404-IN20 engine from GE Aerospace.
- ❖ The Nashik facility can produce eight aircraft annually, raising HAL's total capacity to 24 LCA Mk1A aircraft per year.

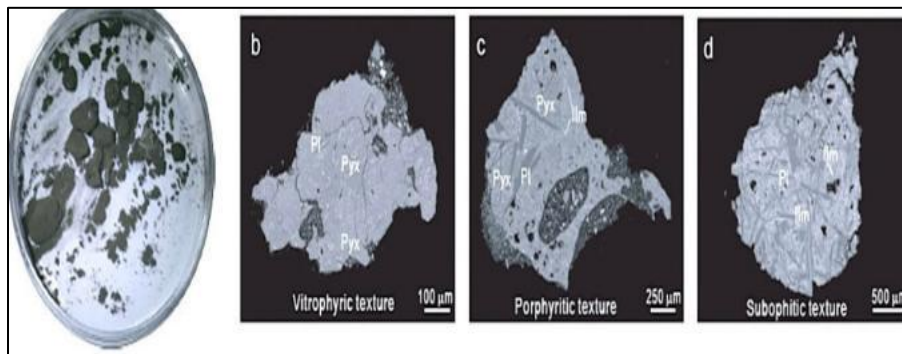
Sinapic acid



- ❖ Researchers have identified Sinapic acid, a naturally occurring plant compound, as a potential treatment for diabetic wounds.
- ❖ The study found that oral administration of Sinapic acid accelerates wound healing by activating the SIRT1 pathway.
- ❖ SIRT1 pathway is responsible for tissue repair and inflammation control.
- ❖ This is the first global study to demonstrate the compound's oral efficacy in diabetic wound healing.
- ❖ The discovery could help reduce amputations, speed recovery from diabetic foot ulcers.

Rare Meteorites Found on Moon

- ❖ Chinese scientists discovered rare meteorite relics in lunar soil brought back by the Chang'e-6 mission.
- ❖ Researchers identified CI chondrite fragments, water- and carbon-rich meteorites originating from the outer Solar System.
- ❖ Findings suggest the Earth-Moon system experienced more carbonaceous chondrite impacts than previously known and may explain the lunar origin of water.
- ❖ Chang'e-6 returned 1,935.3 grams of samples from the Moon's far side South Pole-Aitken Basin in 2024.



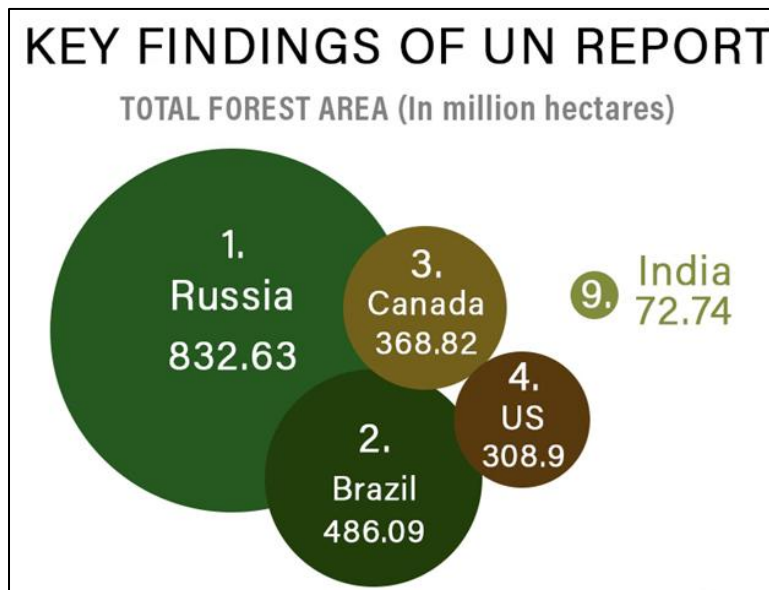
ENVIRONMENT NEWS

90th State Member of the IUCN - Tuvalu



- ❖ Tuvalu has become the 90th State Member of the IUCN.
- ❖ It is a small Polynesian island nation located in the west-central Pacific Ocean.
- ❖ Tuvalu consists of 9 atolls and reef islands covering 676 kilometers, with a land area of only 26 square kilometers.
- ❖ Tuvalu's capital is Vaiaku, located on Funafuti Atoll.
- ❖ The islands are extremely low-lying, with elevations of just 4 to 5 meters above sea level.
- ❖ Tuvalu has no rivers and depends on rainwater and wells for freshwater.
- ❖ Tuvalu is known for its rich marine biodiversity, including coral reefs and migratory species.

Global Forest Ranking 2025



- ❖ India has climbed to the 9th position globally in terms of forest area in 2025.
- ❖ The country maintains the 3rd rank in annual net forest gain according to the United Nations Food and Agriculture Organization (FAO).
- ❖ India's forest cover is reported at 72.7 million hectares, accounting for around 2 percent of the world's total forest area.
- ❖ Asia is the only continent to see an increase in forest area since 1990, led by India and China.
- ❖ Globally, Russia has the largest forest cover at 832.6 million hectares, followed by Brazil, Canada, the United States, and China.

REPORTS AND INDICES

UNEP report on Forests 2025



- ❖ The report titled “High-risk Forests, High-value Returns: A Co-benefits Assessment for Decision-makers” was released by the United Nations Environment Programme (UNEP).
- ❖ The report examines the global importance of conserving high-risk tropical forests covering about 391 million hectares.
- ❖ These forests face a high deforestation risk, but are essential for people and the planet.
- ❖ Protecting these forests prevents major carbon emissions and provides benefits like water and soil regulation, rainfall recycling, pollination, food security, and livelihoods for 25 million materially poor people.
- ❖ Conservation helps avoid an estimated US\$81 billion in climate-related damages annually.
- ❖ Ecosystem services from these forests are critical for women and Indigenous Peoples, whose well-being depends on forest resources.
- ❖ The report advises integrating development and protection to balance agriculture, timber use, and conservation benefits.
- ❖ It provides spatial data to guide policymakers, investors, and governments on where to focus finance for maximum climate, biodiversity, and social returns.

Global Education Report 2025

- ❖ The Global Education Report 2025 was released by UNESCO.
- ❖ It shows that 133 million girls worldwide remain out of school.
- ❖ Since the 1995 Beijing Declaration, over 91 million more girls attend primary school and 136 million more attend secondary school.
- ❖ Central and South Asia have achieved gender parity in secondary education.
- ❖ Sub-Saharan Africa and Oceania lag due to poverty, conflict, and rural isolation.
- ❖ Only two-thirds of countries provide compulsory sexuality education at the primary level, and textbooks often reinforce gender bias.
- ❖ Women make up most teachers but hold only 30% of higher education leadership positions globally.



STATES' NEWS

Bamboo Plantation Project

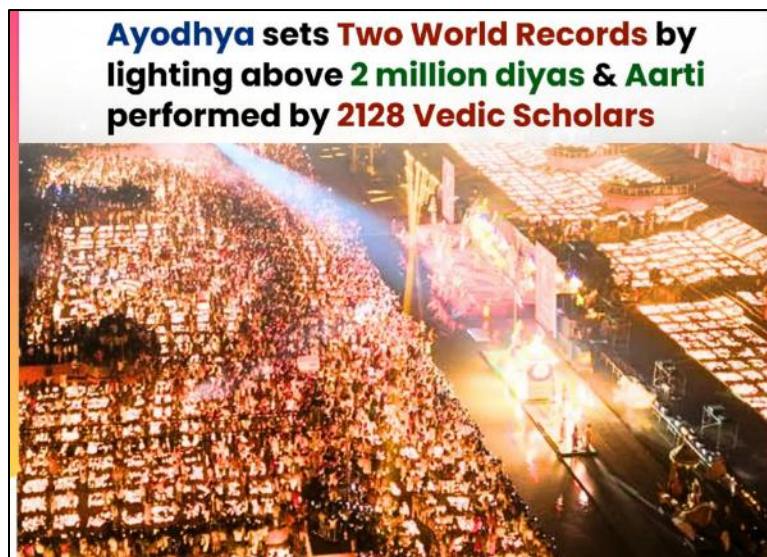
- ❖ The Green India Challenge (GIC) launched a pilot bamboo plantation project in Mullagutta 2 village, Adilabad district, Telangana.
- ❖ The project aims to restore the traditional livelihoods of the Kolam Adivasis, a PVTG (Particularly Vulnerable Tribal Group).

- ❖ It addresses the bamboo shortage faced by the Kolam tribes due to restricted access to forest resources.
- ❖ The initiative, led by Santosh Joginapalli, founder of GIC, focuses on sustainable bamboo supply and training tribal artisans in advanced bamboo craftsmanship.



Deepotsav 2025

- ❖ Ayodhya Deepotsav 2025 sets Guinness World Records.
- ❖ Ayodhya lit 26.17 lakh earthen lamps along the Saryu River.
- ❖ The event also recorded the largest simultaneous aarti with 2,128 priests.
- ❖ Deepotsav celebrations began in 2017 and have grown steadily every year.

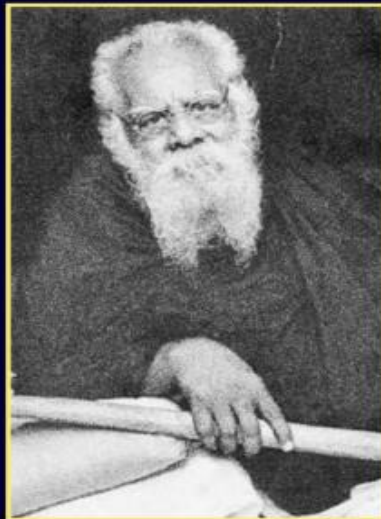


PERSONALITIES, AWARDS, AND EVENTS

Vaikom award for social justice

- ❖ The Tamil Nadu government announced the Vaikom Award for Social Justice for the year 2025.
- ❖ The award will be presented to Thenmozhi Soundararajan, a Dalit civil rights activist based in the United States.
- ❖ It honors individuals or organizations working for the welfare of marginalized communities.
- ❖ It was instituted in memory of the late social reformer E.V. Ramasamy.
- ❖ The award includes a cash prize of ₹5 lakh, a citation, and a medal.

The state of Tamil Nadu awards
Thenmozhi Soundararajan
the prestigious Vaikom award
for social justice!



BRICS International Award 2025

- ❖ The event was organised by the BRICS Culture Media Forum in collaboration with international partners in Moscow, Russia.
- ❖ Abusupyan Kharkharov was honoured for contributions to spiritual education and cultural development.

- ❖ Maestro Igor Evard was honoured for his contributions to global music and culture.
- ❖ Dr. Shabir Hassan was honoured for achievements in science and peacebuilding.



IMPORTANT DAYS

World Pediatric Bone and Joint Day 2025 - October 19

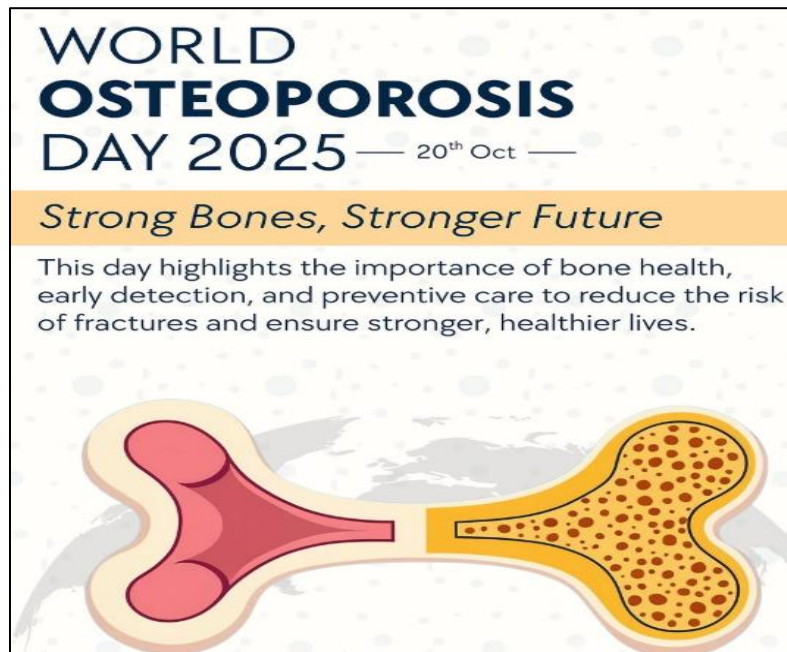


- ❖ The day aims to raise awareness about musculoskeletal conditions in children.

- ❖ It was first celebrated on October 19, 2012, by the Paediatric Specialty Group under the United States Bone and Joint Initiative.
- ❖ It highlights prevention and early detection of bone and joint disorders in children.

World Osteoporosis Day 2025 - October 20

- ❖ The day aims to raise awareness about osteoporosis and promote early diagnosis, prevention, and treatment.
- ❖ It was first observed in 1996 by the United Kingdom's National Osteoporosis Society in collaboration with the European Commission.
- ❖ Globally, 1 in 3 women and 1 in 5 men aged 50 years suffer from osteoporotic fractures.
- ❖ The theme for 2025 is "It's Unacceptable!".



National Solidarity Day 2025 - October 20

- ❖ It is observed to promote unity and resilience among communities, encouraging collective efforts for social welfare and peace.
- ❖ The day was first commemorated in 1966 under the leadership of Prime Minister Indira Gandhi.
- ❖ On this day in 1962, the Sino-Indian War began.
- ❖ The conflict ended with a unilateral Chinese ceasefire on November 20/21, 1962.

On October 20, 1962, the Chinese launched simultaneous offensives in Ladakh & across the McMahon Line, starting the **Sino-Indian War**

WHEN CHINA INVADED INDIA



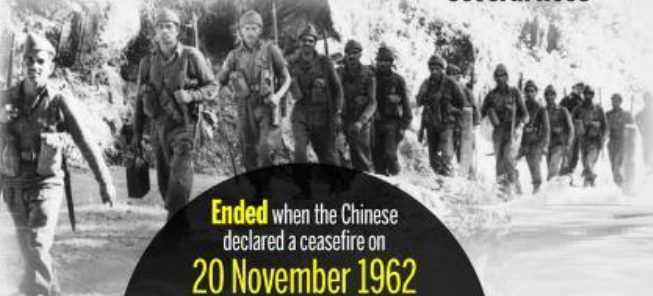
REASON:
Disputed territory along the
3,225-km
-long Himalayan border



10,000-12,000
Indian troops
80,000
Chinese troops



Most fighting took place at altitudes of over **4,000 metres** (14,000 feet), with harsh conditions claiming **several lives**



ENDED when the Chinese declared a ceasefire on **20 November 1962**

INDIAN CASUALTIES

1,383 Killed	1,047 wounded
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World Statistics Day 2025 - October 20



- ❖ The day aims to recognize the importance of statistics and honour statisticians worldwide.
- ❖ It was first observed in 2010 by the United Nations.
- ❖ The theme for 2025 is “Driving Change with Quality Statistics and Data for Everyone.”



MISCELLANEOUS NEWS

Adani's Godda Power Plant

- ❖ The Centre approved Adani Power Limited's proposal to link its 1,600 MW Godda Ultra Super Critical Thermal Power Plant in Jharkhand to the Indian grid.
- ❖ The plant, declared an SEZ (Special Economic Zone) in March 2019, had been supplying power exclusively to Bangladesh under a long-term agreement.
- ❖ Approval allows the plant to connect to the Indian grid through the Kahalgaon A–Maithon B line, passing through 56 villages in Godda district.
- ❖ The Ministry of Power granted Adani Power authority under Section 164 of the Electricity Act 2003, similar to telegraph authority powers for transmission line installation.

