

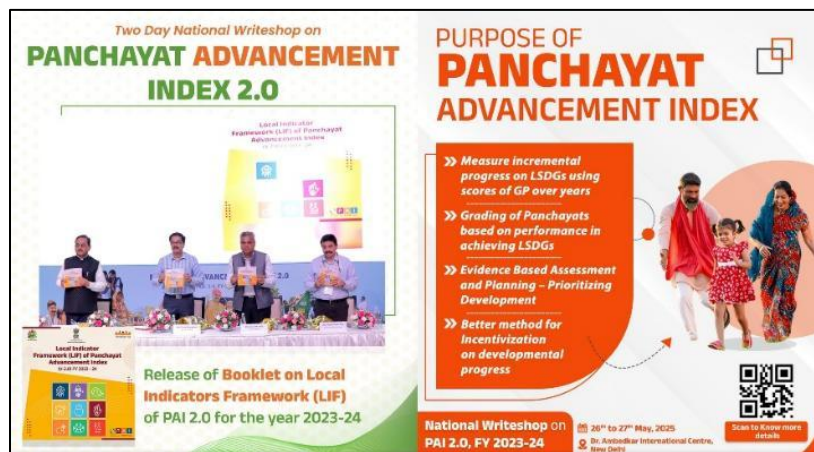
May - 31

TNPSC BITS

- ❖ The Indian Railways and Uttar Pradesh introduced India's first Vistadome jungle safari train between the Katarniaghat Wildlife Sanctuary with the Dudhwa Tiger Reserve.
- ❖ Google has very recently introduced a "Matryoshka" AI strategy that integrates foundational AI models into all its platforms and services.
- ❖ Algeria now has officially become a new member country of the BRICS's New Development Bank (NDB).
- ❖ This year's International Day of Action for Women's Health 2025 is observed on May 28, 2025, as a reminder, that the health of women and girls is fundamental to the health of families, communities, and nations.
 - The Theme for 2025 is "In Solidarity We Resist: Our Fight, Our Right!"
- ❖ The International Mount Everest Day is observed on May 29th to commemorate the first successful climb of Sir Edmund Hillary of New Zealand and Tenzing Norgay Sherpa of Nepal in 1953.
- ❖ The World Digestive Health Day (WDHD) is observed annually on May 29 to raise awareness about digestive health and its impact on overall well-being.
 - The theme for 2025 is "Your Digestive Health: Nourish to Flourish".

NATIONAL NEWS

Panchayat Advancement Index (PAI) 2.0



- ❖ The Panchayat Advancement Index (PAI) 2.0 Portal was launched recently.

- ❖ Local Indicator Framework (LIF) Booklet for FY 2023–24 along with the Standard Operating Procedure (SOP) was also released.
- ❖ PAI is a multidimensional assessment framework developed by the Ministry of Panchayati Raj.
- ❖ It aims to enable performance tracking of over 2.5 lakh Gram Panchayats across nine themes aligned with the Localization of Sustainable Development Goals.

Bharat Forecast System

- ❖ The India Meteorological Department (IMD) under the Ministry of Earth Sciences adopted the Bharat Forecast System (BFS).
- ❖ It is an indigenously developed weather prediction model boasting a 6-kilometre resolution grid.
- ❖ It delivers the very high-accuracy forecasts at an ultra-fine spatial resolution of 6 kilometres.
- ❖ This places India ahead of global peers such as the United Kingdom, the United States, and the European Union.
- ❖ Their models typically operate at 9 to 14 km resolution.
- ❖ The improved forecasting system is also supported by the very high-performance computing systems 'Arka' and 'Arunika'.

Precision technology

The BFS developed by the Indian Institute of Tropical Meteorology, aims at improving weather forecast models

EXISTING FORECAST MODELS

- Use square grids of 12-km sides to map a region
- Use equal-sized grids to map regions
- Able to give block-level forecasts 5 days ahead



BFS MODEL

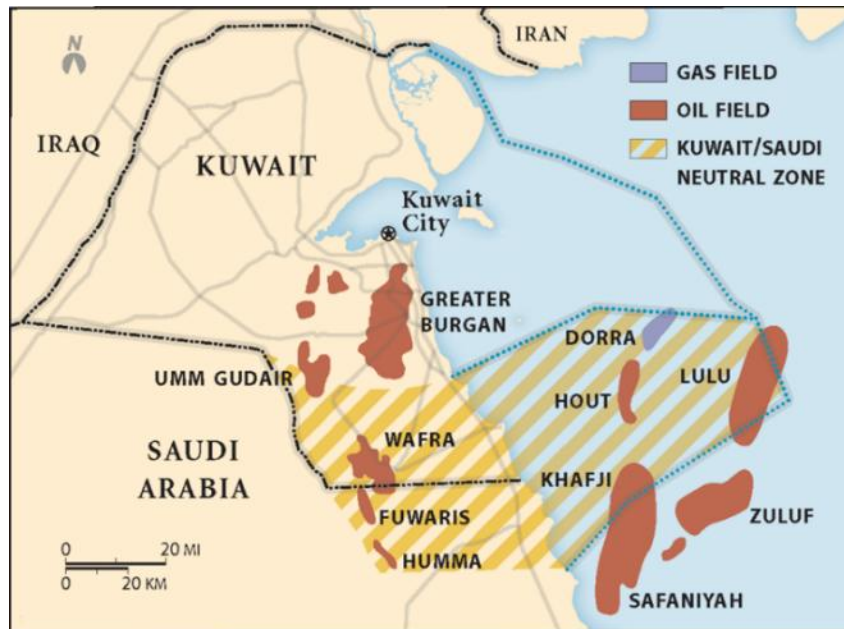
- Breaks down a region into 6-km sides for mapping, leading to a four-fold improvement
- Uses a triangular-cubic octahedral structure
- Able to give forecasts up to the level of panchayats

INTERNATIONAL NEWS

North Wafra Wara-Burgan field

- ❖ Saudi Arabia and Kuwait have jointly announced the discovery of oil in the North Wafra Wara-Burgan field, part of the neutral zone between the two countries.

- ❖ This marks the very first discovery since the resumption of production operations in the Partitioned Zone and its adjacent offshore area in mid-2020.
- ❖ The neutral zone is also called the Partitioned Zone.
- ❖ It is a 5,770 sq km area between Saudi Arabia and Kuwait where both countries share equal rights to oil.



Dayton Peace Accords



- ❖ The 30th anniversary of the Dayton Peace Accords was celebrated recently.
- ❖ The Dayton Peace Accords ended the more than three-year-long Bosnian War in 1995.
- ❖ The General Framework Agreement provided Peace in Bosnia and Herzegovina.

- ❖ The official agreement was finalized and signed in Paris on Dec. 14, 1995.

East African Countries Unite Against Kala-Azar

- ❖ Chad, Djibouti, Ethiopia, Somalia, South Sudan and Sudan have signed a MoU to eradicate visceral leishmaniasis (also known as kala-azar).
- ❖ Kala-azar, caused by a parasite, is one of the neglected tropical diseases (NTD) with a high fatality rate.
- ❖ Over 70% of the global burden is in the Eastern African region, where half of affected people are children under 15.
- ❖ As of May 2025, 56 countries have eliminated at least one NTD globally, including Togo (four NTDs) and Benin, Ghana and India (three NTDs).



Six new sites – GIAHS

- ❖ Recently Six new sites were recognized as FAO's Globally Important Agricultural Heritage Systems (GIAHS).
 - A traditional agroforestry system for erva-mate plants in Brazil.

- Specialised farming systems in China for pearl mussels (a mollusc), white tea, and pears,
- Ancestral system preserving vital food crops and biodiversity in Mexico and
- A distinctive farming system in the volcanic landscape of Lanzarote Island, Spain
- ❖ It aims to protect family farming and traditional agricultural systems from threats such as climate change, community displacements and biodiversity loss.
- ❖ There are 95 GIAHS sites across 28 countries with 3 sites from India.
- ❖ The GIAHS sites in India are:
 - Saffron Heritage of Kashmir
 - Koraput Traditional Agriculture -Odisha
 - Kuttanad Below Sea Level Farming System - Kerala.

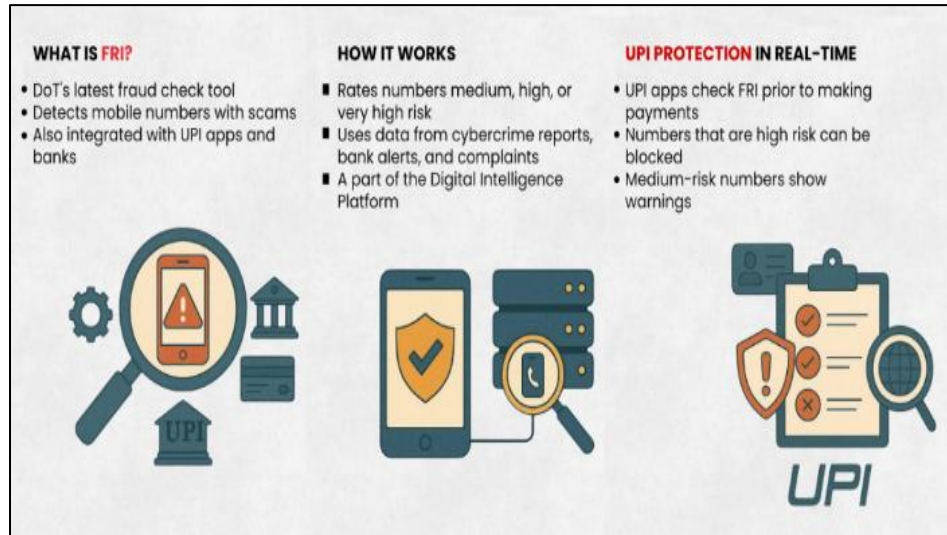
Emerging Types of Potential GIAHS	Services They Provide	Threats
Type 1 Indigenous Upland Agroforestry Systems	naturally grown food, medicinals, NTFP etc raw materials for local crafts and industry soil and water conservation species and genetic biodiversity	> Competitive land use (mining, urban land use, etc) > Lack of interest among the youth > Aging farm population > Hardly reached by agricultural support services > Increasing use of agricultural chemicals > Changing climate patterns
Type 2 Lowland Based High Value Crops	genetic diversity (many varieties of one crop) lessons in on farm climate change adaptation cultural heritage	

ECONOMY NEWS

Financial Fraud Risk Indicator (FRI)

- ❖ The Telecom Department has introduced 'Financial Fraud Risk Indicator (FRI)'.
- ❖ It enables enhanced intelligence sharing with banks, UPI service providers and financial institutions to tackle cyber fraud and financial crime.
- ❖ This is a risk-based metric that classifies a mobile number to have been associated with 'Medium', 'High', or 'Very High' risk of financial fraud.

- ❖ The UPIs may decline transactions linked to Very High FRI mobile numbers and display an on-screen alert.



SCIENCE AND TECHNOLOGY NEWS

Niallia tiangongensis



- ❖ This bacterium, never before seen on Earth, was detected on China's Tiangong space station.
- ❖ It has been named *Niallia tiangongensis*.
- ❖ The new species appears to be a close cousin to a known strain called *Niallia circulans* – a rod-shaped, soil-dwelling bacterium.

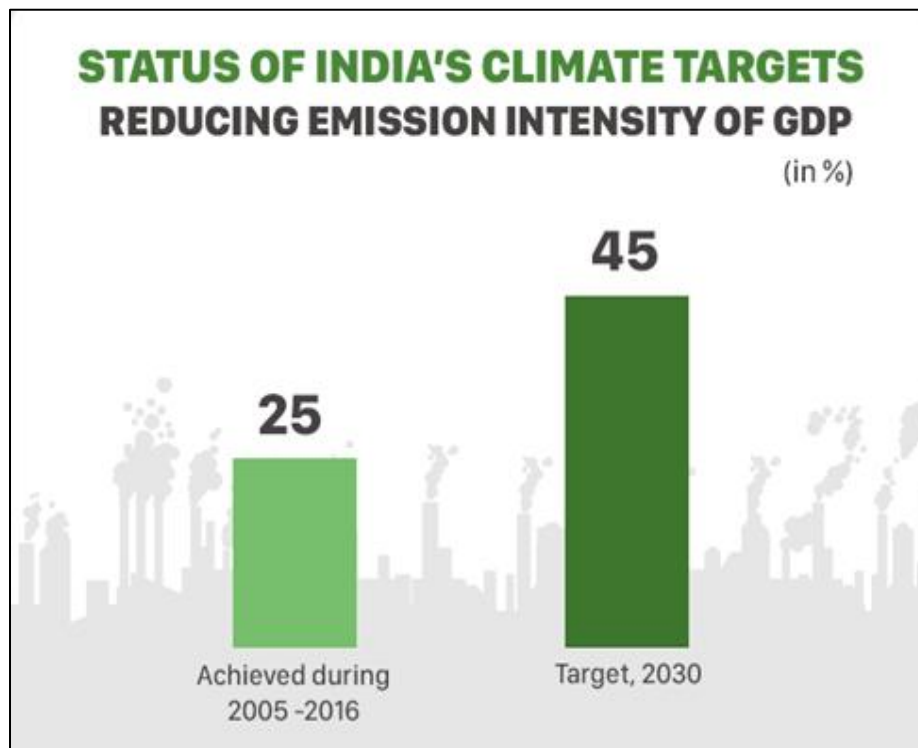


- ❖ The new species has a unique ability to break down gelatin as a source of nitrogen and carbon.

ENVIRONMENT NEWS

Energy and Climate Change Report 2025

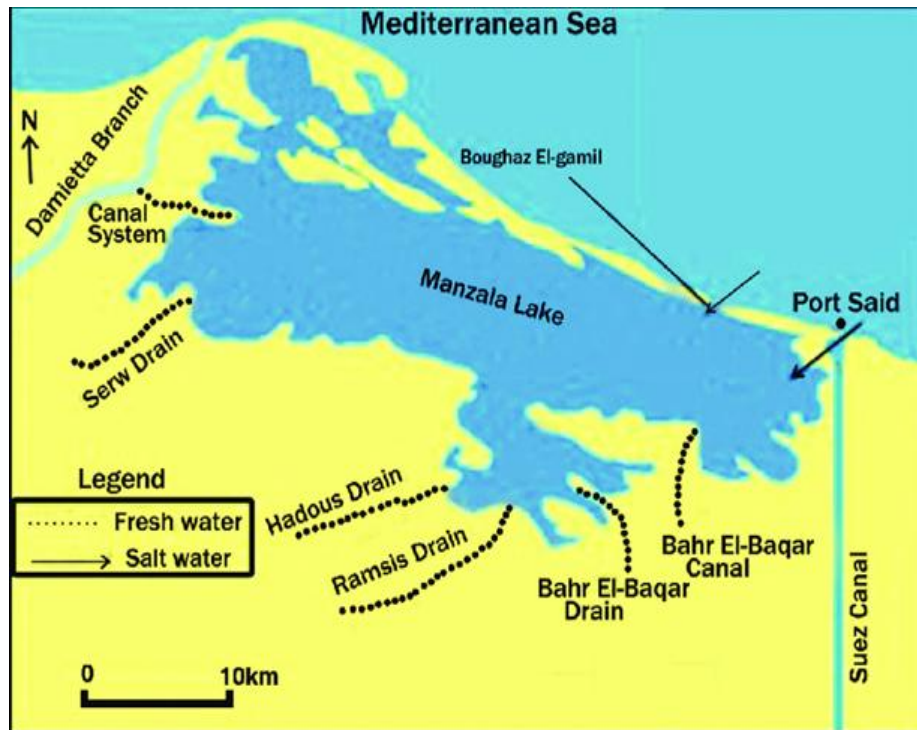
- ❖ India is on track to exceed its climate target of reducing the emissions intensity of its GDP by 45 per cent by 2030 as compared to 2005 levels.
- ❖ The analysis was made by the Delhi-based think-tank Council on Energy, Environment and Water (CEEW) and Alliance for an Energy-Efficient Economy (AEEE).
- ❖ India's energy sector emission intensity could decrease by 48-57 per cent by 2030 as compared to 2005 levels.



Lake Manzala

- ❖ Manzala is situated in the northern part of Egypt, with the Mediterranean Sea to its north.
- ❖ The surface area of Lake Manzala, which was around 1,709 square kilometres until the 19th century, decreased by 67 per cent between 1907 and 2016.

- ❖ Eutrophication contributed to a further 45 per cent reduction. Currently, the lake covers an area of 572.41 square kilometres.
- ❖ There are around 304 islands in Manzala Lake, constituting a total of 23 per cent of the lake area.
- ❖ The world's largest wastewater treatment plant was constructed near the lake in 2021.
- ❖ The reclamation dredging activity increased salinity and reduced nutrients in the lake considerably in 2022 compared to 2015.



REPORTS AND INDICES

Top 10 wealthiest cities in the world in 2025

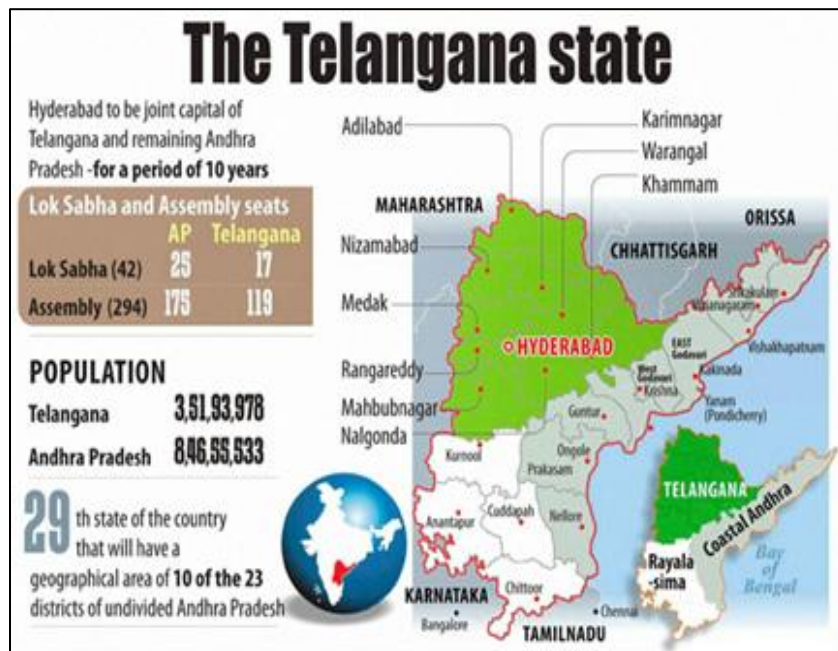
- ❖ The New York City remains at the top rank with 384,500 millionaires, 818 centi-millionaires (individuals with assets over \$100 million), and 66 billionaires.
- ❖ The Bay Area (covering San Francisco and Silicon Valley) ranked 2nd with about 305,700 millionaires.
- ❖ Tokyo stands as Asia's wealthiest city, boasting 298,300 millionaires stands 3rd globally.
- ❖ It is followed by Singapore, Los Angeles, London, Paris, Hong Kong and Sydney.

- ❖ India's Mumbai ranked at 27th with 58,800 millionaires, 236 centi-millionaires, and 29 billionaires.
- ❖ Delhi ranked at 36th with 30,700 millionaires and 16 billionaires.

1.	NEW YORK CITY		384,500	6.	LONDON		215,700
2.	THE BAY AREA		342,400	7.	PARIS		160,100
3.	TOKYO		292,300	8.	HONG KONG		154,900
4.	SINGAPORE		242,400	9.	SYDNEY		152,900
5.	LOS ANGELES		220,600	10.	CHICAGO		127,100

STATES' NEWS

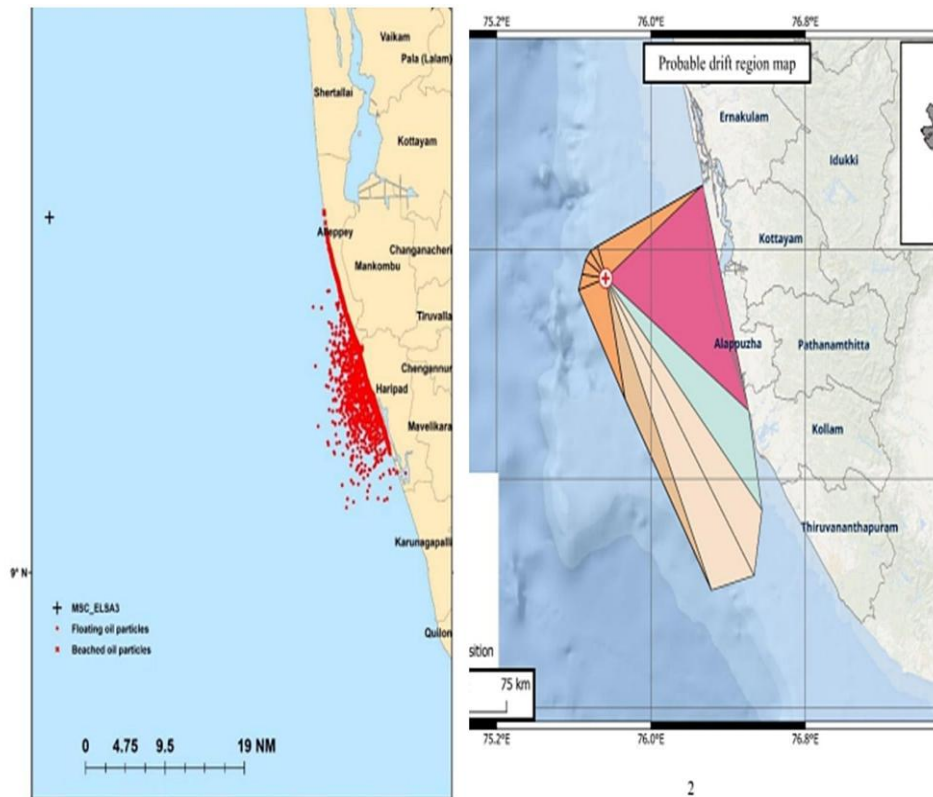
Composite Backwardness Index Initiative



- ❖ The Telangana government's expert working group has decided to formulate a first-of-its-kind 'Composite Backwardness Index'.

- ❖ It will be done by using the caste census data to measure disparities across the 243 sub-castes enumerated in the survey.
- ❖ The survey was formulated to study, analyse and interpret data collected under the Social Education Employment Economic Political Caste (SEEEPC) Survey of 2024.
- ❖ The expert group will use up to 43 parameters split between the rural and urban areas under seven categories.

Kerala Oil Spill Incident 2025



2

- ❖ The Liberian-flagged cargo ship, MSC ELSA 3, overturned off the Kerala coast.
- ❖ The ship had transported diesel, furnace oil and hazardous goods such as the calcium carbide.
- ❖ Three Coast Guard vessels, Vikram, Saksham and Samarth, have been deployed in a pollution response configuration in the area.
- ❖ When the calcium carbide comes into contact with water, it undergoes a highly exothermic reaction, generating acetylene gas and calcium hydroxide.
- ❖ The heat released during this reaction can be significant, and the acetylene gas formed is extremely flammable.

- ❖ The calcium hydroxide produced increases water's alkalinity, which can disrupt aquatic ecosystems by altering pH levels.

PERSONALITIES, AWARDS, AND EVENTS

Winners of 'Ideas4LiFE'



- ❖ MoEFCC has announced the 21 winning ideas under the 'Ideas4LiFE' initiative.
- ❖ The 'Ideas4LiFE' initiative was launched through a dedicated portal, in a close association with 'UNICEF YuWaah'.
- ❖ Ideas were sought on one of the seven themes of Mission LiFE (Save Energy, Save Water, Say No single-use plastic, Sustainable Food Systems adopted, Reduce Waste, reduce e-waste, Adopt Healthy Lifestyles).
- ❖ Under the 'save energy' theme, Pachaiyappa's College for Men -Kanchipuram won the third prize.
- ❖ PSG College of Arts & Science, Coimbatore won 1st prize under the 'Say No Single Use Plastic' theme, and 2nd prize under the 'Adopt Sustainable Food Systems' theme.

IMPORTANT DAYS

International Day of the Markhor 2025 - May 24

- ❖ The markhor (*Capra falconeri*) is an iconic and ecologically significant species found across the mountainous regions of Central and South Asia.
- ❖ They spread across Afghanistan, India, Pakistan, Tajikistan, Turkmenistan and Uzbekistan.
- ❖ The markhor was categorized as "Near Threatened" in 2014.

- ❖ The number of mature individuals of markhor in the world is approximately 5,700.
- ❖ It is the national animal of Pakistan.




World Schizophrenia Day 2025 - May 24

World Schizophrenia Day (24th May)

Schizophrenia is a mental illness which affects the functioning of one's brain.
This affects the patient suffering from schizophrenia to feel, act or think like a normal person.

SYMPTOMS OF SCHIZOPHRENIA
FALSE BELIEFS OF -
- Being harmed and harassed
- Having exceptional ability or fame
Hearing things that do not exist
Lack of effective communication
Abnormal Behaviour -
- Making inappropriate behavior
- Lack of any response
- Useless or excessive movements
Neglect personal hygiene
Lack of emotion
Social withdrawal



Be aware about the symptoms and always consult a doctor.
With treatment and regular medication a person with schizophrenia can lead a normal life.

- ❖ This day aims to learn the signs and symptoms of schizophrenia and understand how they impact lives.
- ❖ Schizophrenia is one of the most misunderstood mental health conditions.

- ❖ This means individuals might see, hear, or believe things that are not real.
- ❖ Approximately 24 million of the people worldwide or 0.3% to 0.7% of the general population are impacted.
- ❖ The theme for 2025 is "Rethink the Label: Reclaim the Story".

Commonwealth Day in India 2025 - May 24

- ❖ This day is observed globally on various dates and on May 24 in India.
- ❖ It commemorates the shared history and values of nations formerly part of the British Empire.
- ❖ This day is linked to Queen Victoria's birthday on May 24, 1819.
- ❖ India has become a member of the Commonwealth in 1950, as per the London Declaration of Krishna Menon.
- ❖ The theme for 2025 is 'Together we thrive'.



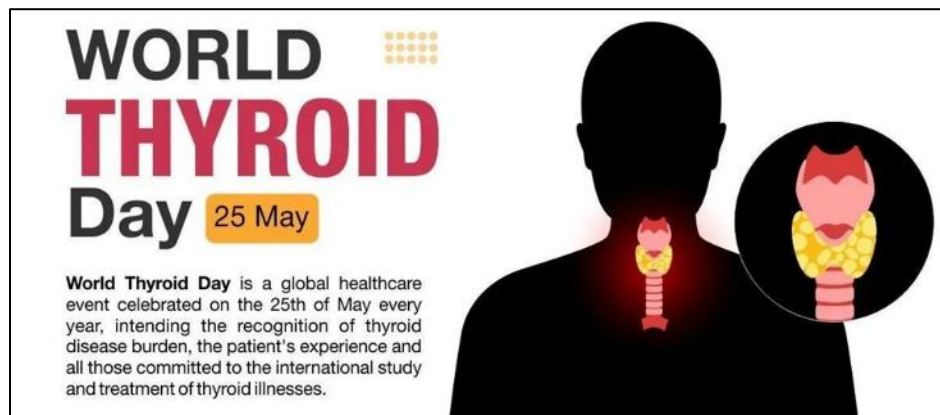
International Week of Solidarity with Non-Self-Governing Territories 2025 – May 25/31

- ❖ In the UN Charter, a Non-Self-Governing Territory is defined as a territory “whose people have not yet attained a full measure of self-government.”
- ❖ In 1946, around eight Member States - Australia, Belgium, Denmark, France, the Netherlands, New Zealand, the UK and the USA - listed 72 territories under their administration, which they considered to be non-self-governing.
- ❖ Eight became independent before 1959.

- ❖ From 1960 to 2002, 54 territories attained self-government.
- ❖ At present, 17 Non-Self-Governing Territories are remaining.



World Thyroid Day 2025 - May 25



- ❖ It aims to encourage early detection and promote education about thyroid health.
- ❖ The thyroid gland produces the thyroid hormones which are essential for normal growth and energy metabolism.
- ❖ More than 4.2 crore Indians are affected and over 100 crore people live in Iodine-deficient regions globally.

World Football Day 2025 - May 25

- ❖ Last year, the United Nations General Assembly adopted a resolution to recognise this day.

- ❖ In 2024, the day marked the 100th anniversary of the first international football tournament featuring teams from all regions.
- ❖ Football made its Olympic debut in Paris in 1924.



International Missing Children's Day 2025 - May 25

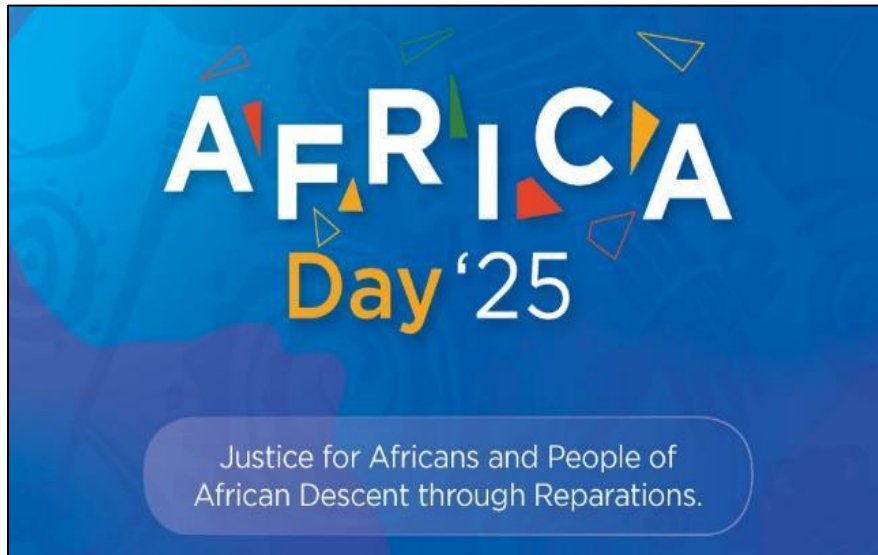


- ❖ The day aims to highlight the efforts made to find and reunite these children with their families.
- ❖ It also promotes measures to protect children from an abduction and exploitation and honour those who have been recovered.
- ❖ This day marks the anniversary of the disappearance of six-year-old Etan Patz, who went missing on his way to school in New York City in 1979.

Africa Day 2025 - May 25

- ❖ This day commemorates the creation of the Organisation of African Union on 25 May 1963.

- ❖ Africa is home to around 1.4 billion people, almost 17% of the world's population.
- ❖ The continent also has 30% of the world's mineral resources and 60% of the world's unexploited arable land.
- ❖ 2025's theme will be 'Justice for Africans and People of African Descent through Reparations'.



Menstrual Hygiene Day 2025 - May 28



- ❖ It aims to raise the awareness about the importance of good menstrual hygiene management.
- ❖ It was initiated by the German-based NGO WASH United in 2013.

- ❖ May is the fifth month of the year, representing the average length of a menstrual cycle (five days), and 28 signifies the average number of days in a menstrual cycle.
- ❖ The theme for 2025 is “Together for a #PeriodFriendlyWorld”.

World Dugong Day 2025 - May 28

- ❖ Dugongs (Dugong dugon) are also called “sea cows”.
- ❖ They are the marine mammals that graze on seagrass beds, earning them the nickname “farmers of the sea.”
- ❖ They are the only herbivorous marine mammals found in Indian waters.
- ❖ It is listed as Vulnerable on the IUCN Red List.
- ❖ The Dugong Conservation Reserve was established in 2022 in Palk Bay, Tamil Nadu.



World Hunger Day 2025 – May 28

- ❖ It aims to highlight the root causes of the hunger and advocate for policies and practices that empower vulnerable communities.
- ❖ This day was initiated in 2011 by the Hunger Project.
- ❖ 343 million people across 74 countries experienced acute food insecurity.

- ❖ 20% increase in hunger and malnutrition, especially for children, due to climate change.



International Day of United Nations Peacekeepers 2025 - May 29



- ❖ UN peacekeeping dates back to 1948 when the first UN peace operation mission was established in the Middle East.

- ❖ Some 68,000 military, police and civilian personnel from 119 countries currently serve in 11 peacekeeping operations.
- ❖ This year's theme is "The Future of Peacekeeping."
- ❖ India ranks as the 4th largest contributor of uniformed personnel to UN missions with 5300 personnel.

International Day of Potato 2025 - May 30

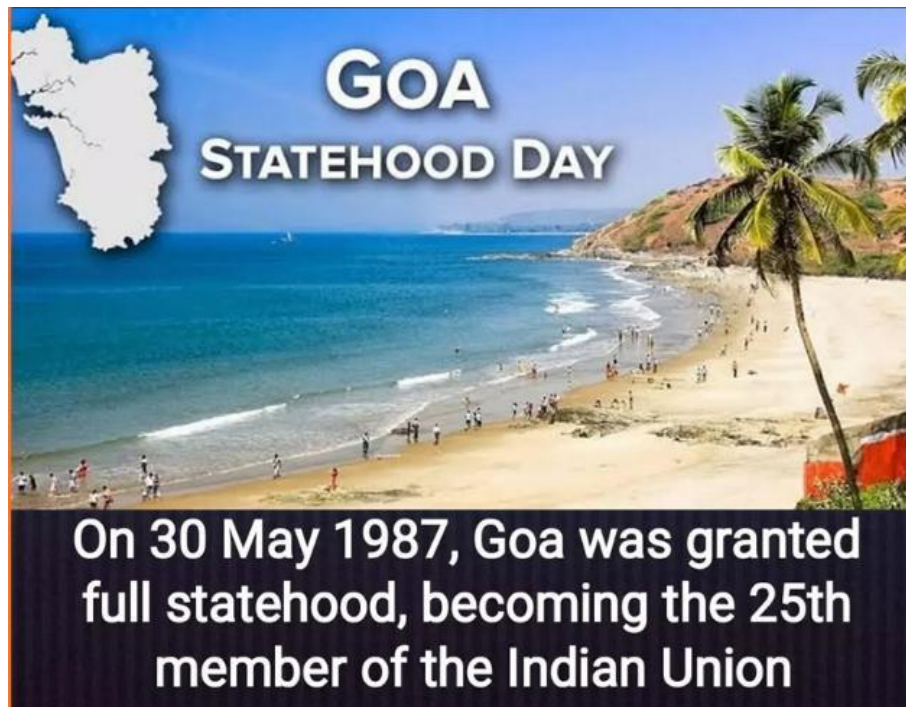


- ❖ It aims to raise the awareness of the potato's nutritional, economic, and cultural significance.
- ❖ Potatoes are also a climate-friendly crop, as they produce low levels of greenhouse gas emissions in comparison to other crops.
- ❖ More than 5,000 potato varieties offer a genetic wealth to combat pests, diseases, and climate change impacts, guiding sustainable agriculture practices.
- ❖ By 2030, the total production of the potatoes will reach 750 million tons, with an increase of 112%.
- ❖ The theme of 2025 is 'Shaping history, feeding the future'.

Goa Statehood Day 2025 - May 30

- ❖ Goa got its statehood on May 30, 1987, and became the 25th state of India.
- ❖ It was a Portuguese territory since Alfonso de Albuquerque conquered it in 1510 by defeating Adil Shah of Bijapur.
- ❖ 400 years later, India took back Goa from the Portuguese.
- ❖ The Indian Army has invaded Goa in December 1961 under "Operation Vijay" to liberate it from the Portuguese.

- ❖ The annexation by the Indian Army began on December 17, 1961.



Hindi Journalism Day 2025 - May 30

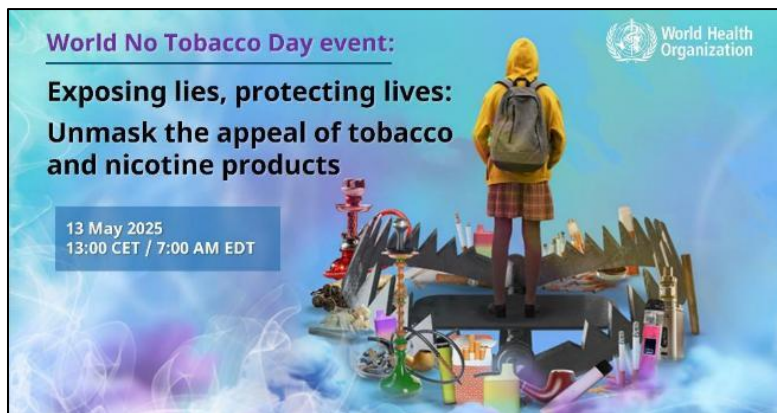


- ❖ This day serves as a tribute to the enduring legacy of Hindi journalism, which has thrived in the country for nearly two centuries.

- ❖ On this day in 1826, The first Hindi newspaper, Udant Martand (translated as The Rising Sun), was published in Calcutta (now Kolkata).
- ❖ It was started by Jugal Kishore Shukla, a lawyer from Kanpur.

World Anti-Tobacco Day 2025 - May 31

- ❖ It aims to raise the awareness about the dangers of tobacco use and advocate for effective policies to reduce consumption.
- ❖ An estimated 37 million children aged 13-15 years worldwide use tobacco.
- ❖ The theme for 2025 is "Unmasking the Appeal: Exposing the Industry Tactics on Tobacco and Nicotine Products".



MISCELLANEOUS NEWS

CEIR portal status

Location	↑↓ Mobiles Blocked	↑↓ Mobiles Traced	↑↓ Mobiles Recovered
Telangana	3,41,670	1,90,832	79,428
Karnataka	3,83,413	2,06,835	79,036
Maharashtra	4,10,076	2,32,332	44,416
Uttar Pradesh	1,86,470	1,16,259	29,163
Rajasthan	99,530	66,018	26,806
Tamil Nadu	1,33,160	78,370	26,179

- ❖ The CEIR portal was developed by the Department of Telecommunications (DoT).



- ❖ It aims to combat the mobile phone theft and loss by blocking, tracking, and managing lost or stolen devices through their IMEI numbers.
- ❖ Telangana has emerged as the top-performing state in the country in the recovery of stolen or lost mobile phones (78,114).

