



October - 10

TNPSC BITS

- ❖ Professor Mahesh Kakde of the Indian Institute of Science (IISc), Bengaluru, received the Ramanujan Prize 2026 for his contributions to algebraic number theory.
 - The Ramanujan Prize has been awarded annually since 2005 to mathematicians under 45 from developing countries for outstanding research.
- ❖ The 12th National Maritime Search and Rescue Exercise (SAREX-2026) is being conducted by the Indian Coast Guard (ICG) off the Paradip coast, Odisha.
- ❖ The 10th India Mobile Congress (IMC) 2026 is being held in New Delhi, under the theme “Scale Without Boundaries.”
 - The event focuses on 6G, artificial intelligence (AI), 5G, satellite communications, cybersecurity, semiconductors, quantum technologies and digital infrastructure.
- ❖ India’s first national-level pilot project for 3D-printed rural houses under the Pradhan Mantri Awas Yojana–Gramin (PMAY-G) was launched in Andhra Pradesh.
 - In 2021, the Indian Institute of Technology Madras (IIT Madras) and startup Tvasta unveiled India’s first 3D-printed single-storey house on the IIT Madras campus.
- ❖ Breast Cancer Awareness Month is observed annually from 1–31 October to raise awareness about breast cancer and improve access to early diagnosis and quality treatment.
 - The theme for the year 2026 is “Every Story Is Unique, Every Journey Matters.”

NATIONAL NEWS

Annual Survey of Industries 2024–25

- ❖ The Ministry of Statistics and Programme Implementation (MoSPI) released the results of the Annual Survey of Industries (ASI) for 2024–25.
- ❖ The number of registered manufacturing establishments increased to 2.67 lakh, while total employment rose by 7.19% to 2.10 crore.
- ❖ Gross Value Added (GVA) grew by 9.59%, and fixed capital increased by 10.54%.

- ❖ Industrial output increased by 7.81%, while total emoluments paid to workers rose by 12.08%.
- ❖ Tamil Nadu, Maharashtra, Gujarat, Uttar Pradesh and Haryana accounted for about 56% of total manufacturing employment.
- ❖ Basic metals, motor vehicles, chemicals, pharmaceuticals and food products together contributed over 45% of manufacturing GVA.



UCIL Uranium Expansion Plan

- ❖ Uranium Corporation of India Limited (UCIL) plans to double uranium output by 2036 through new mines and uranium recovery from copper residues.
- ❖ India aims to increase domestic uranium availability to support its growing nuclear power programme, which currently has a capacity of around 9 gigawatts (GW).
- ❖ UCIL supplies roughly one-third of the uranium required from domestic sources, while India depends on imports because its uranium resources are relatively limited and low-grade.
- ❖ The proposed Rohil uranium project in Rajasthan will have the capacity to mine and process 2,500 tonnes of uranium ore per day.
- ❖ The Gogi project in Karnataka is at an early stage, with UCIL awaiting precise demarcation of the area from the State government.
- ❖ Two other proposed uranium mining projects are planned in Andhra Pradesh and Chhattisgarh.
- ❖ UCIL is a public sector enterprise under the Department of Atomic Energy (DAE), established in 1967 and headquartered at Jaduguda, East Singhbhum district, Jharkhand.

- ❖ UCIL is India's only company statutorily authorised to extract and process uranium ore, using underground mining, opencast mining and chemical processing of low-grade uranium ores.
- ❖ India's three-stage nuclear power programme envisages a gradual long-term shift towards thorium in its second and third stages.

UCIL plans to double uranium production by expanding existing mines and developing projects in Jharkhand, Rajasthan and Chhattisgarh.

INTERNATIONAL NEWS

FORTRESS America Initiative

US Defence Secretary Pete Hegseth announced 'Fortress America' to make military bases more self-sufficient in power. The initiative aims to reduce reliance on the civilian grid and build independent power capacity, helping bases maintain operations during grid disruptions.

- ❖ The United States Department of War launched the FORTRESS America defence security initiative.
- ❖ FORTRESS America stands for Federal Operations for Resilience, Troop Resources, Energy, Supply, and Survivability.

- ❖ It aims to make major US military installations independent of the civilian power grid to ensure uninterrupted operations during emergencies.
- ❖ Its five pillars are energy independence, supply-chain resilience, strategic defence reserves, installation and cyber resilience, and space and spectrum resilience.
- ❖ It promotes domestic production of critical defence materials, including rare earth elements, specialty metals, semiconductors and propellants.

ECONOMY NEWS

First WASH Social Bond in India

- ❖ NABKISAN Finance Limited listed India's first social bond dedicated exclusively to the Water, Sanitation and Hygiene (WASH) sector on the National Stock Exchange (NSE).
- ❖ The bond raised ₹180 crore, has a five-year tenure and matures in September 2031.
- ❖ The funds will support safe drinking water, sanitation and hygiene projects in rural and underserved communities.
- ❖ The bond received CRISIL AAA (Stable) and CARE AAA (Stable) credit ratings.
- ❖ NABKISAN Finance Limited is a subsidiary of the National Bank for Agriculture and Rural Development (NABARD); Water.org supported the bond as Technical Advisor and Knowledge Partner.



ENVIRONMENT NEWS

First Snow Leopard Safari - Ladakh

- ❖ Ladakh Lieutenant Governor Vinai Kumar Saxena flagged off India's first high-altitude wildlife safari focused on snow leopard trails in Ladakh.

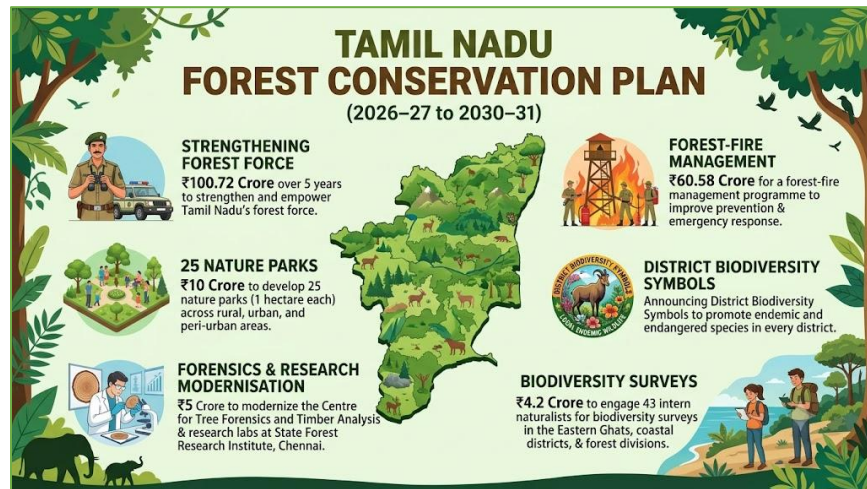
- ❖ The safari is operated by the Snow Leopard and High-Altitude Nature Conservation (SHAN) Society in collaboration with the Union Territory's Forest Department.
- ❖ The safari routes cover Hemis National Park, Changthang and Karakoram Wildlife Sanctuary, along with other regions of Ladakh.
- ❖ Ladakh is home to 477 snow leopards, according to the report.
- ❖ The snow leopard (*Panthera uncia*) is classified as Vulnerable (VU) on the IUCN Red List.
- ❖ The project aims to support wildlife conservation while providing economic benefits to local communities.



TN Forest Conservation Plan

- ❖ Tamil Nadu will spend ₹100.72 crore over five years (2026–27 to 2030–31) to strengthen its forest force.
- ❖ A ₹60.58-crore forest-fire management programme will improve fire prevention and emergency response.
- ❖ 25 nature parks, each covering one hectare, will be developed across rural, urban and peri-urban areas at a cost of ₹10 crore.

- ❖ District Biodiversity Symbols will be announced to promote endemic and endangered species in each district.
- ❖ The Centre for Tree Forensics and Timber Analysis and research laboratories at the State Forest Research Institute, Chennai, will be modernised at ₹5 crore.
- ❖ 43 intern naturalists will be engaged at ₹4.2 crore to conduct biodiversity surveys in the Eastern Ghats, coastal districts and forest divisions.



Nameri Tiger Reserve - Global Recognition

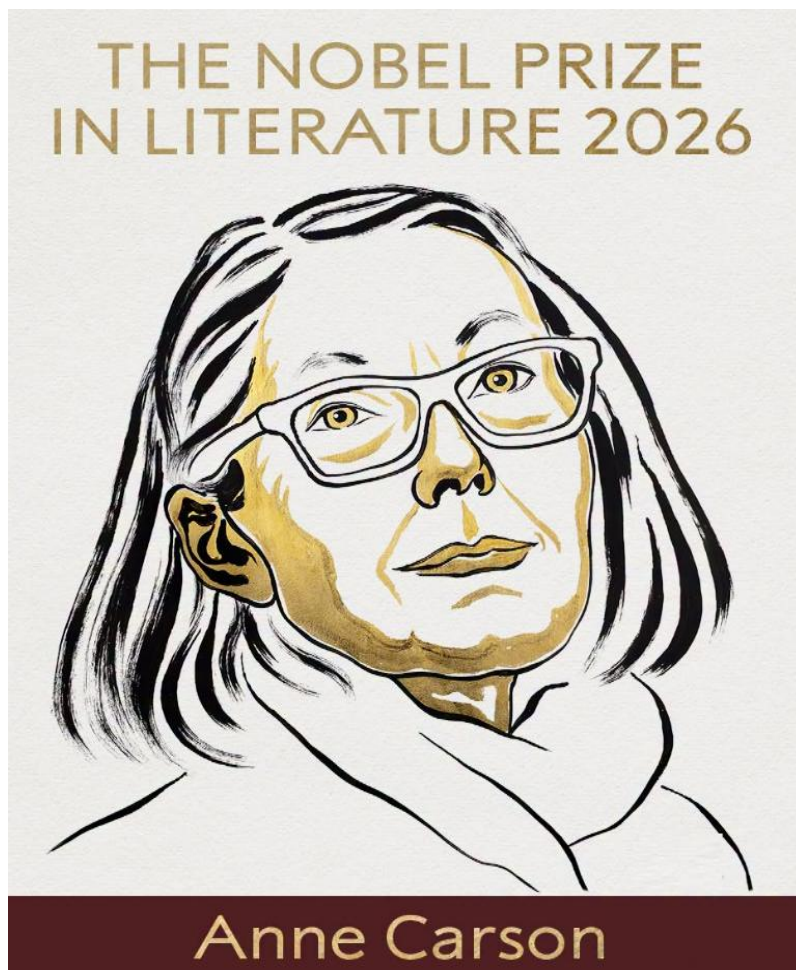


- ❖ Assam's Nameri Tiger Reserve received Conservation Assured Tiger Standards (CA|TS) Approved status for its tiger conservation and protected-area management practices.

- ❖ CA|TS is a globally recognised framework that assesses tiger reserve management, including wildlife protection, habitat management, monitoring, administration and community participation.
- ❖ Nameri Tiger Reserve is located in Sonitpur district, Assam, and covers 464 sq km, including a core area of 200 sq km.
- ❖ With this approval, all four tiger reserves in Assam—Kaziranga, Manas, Orang and Nameri—have achieved CA|TS Approved status.

PERSONALITIES, AWARDS, AND EVENTS

Nobel Prize in Literature 2026



- ❖ Canadian author Anne Carson won the 2026 Nobel Prize in Literature.
- ❖ She was awarded the prize for her innovative literary works that create new forms of contemporary literature through dialogue with classical traditions.
- ❖ She is a poet, essayist, translator and teacher.

- ❖ Her notable works include *The Beauty of the Husband* (2001), *Glass, Irony, and God* (1995) and *Nox*.
- ❖ The Nobel Prize carries a cash award of 12 million Swedish kronor.

IMPORTANT DAYS

World Hydrogen and Fuel Cell Day 2026 - October 08

- ❖ The day aims to raise awareness about hydrogen and fuel cell technologies.
- ❖ In 2026, the Ministry of New and Renewable Energy (MNRE) organised an event in New Delhi to discuss hydrogen standards and safety.
- ❖ The event focused on the safe production, storage, transportation and use of hydrogen in India.
- ❖ The report *India's Hydrogen Standards: Gap Assessment and Preliminary Action Framework* was released at the event.
- ❖ The National Green Hydrogen Mission (NGHM) was approved in January 2023 with an outlay of ₹19,744 crore and targets 5 million metric tonnes of annual green hydrogen production capacity by 2030.

