

November - 06

TNPSC BITS

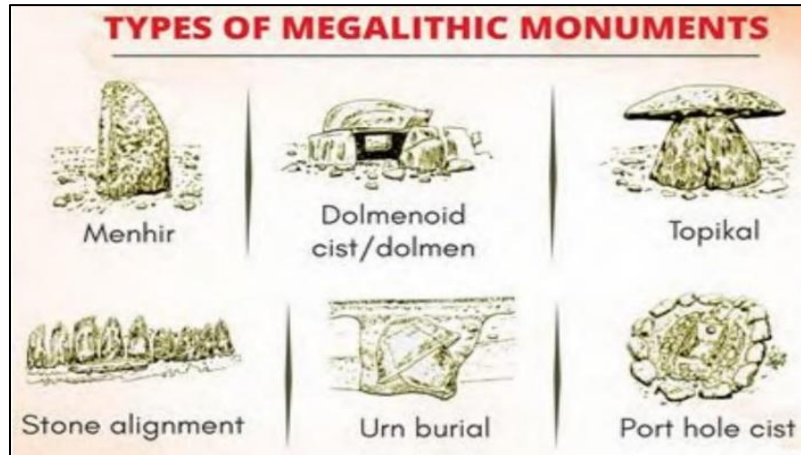
- ❖ Tamil Nadu assembly speaker M. Appavu is participating in the 67th Commonwealth Parliamentary Conference taking place in Sydney, Australia.
- ❖ Historian Ramachandra Guha has launched his latest book 'Speaking with Nature' in Chennai.
- ❖ India is projected to face nearly 1 trillion cyberattacks every year by 2033, with this number potentially soaring to 17 trillion by 2047.
- ❖ India's biggest Jan Aushadhi Kendra was inaugurated at the All-India Institute of Medical Sciences (AIIMS), New Delhi.
- ❖ The number of crorepati taxpayers in India increased five times to 2.2 lakh in the income tax assessment year (AY) 2024, compared to AY 2014.
- ❖ As per the Ministry of Rural Development's latest update, 95% of land records in rural India are fully digitized.
- ❖ The inaugural Climate and Health Africa Conference (CHAC 2024) is taking place in Harare, Zimbabwe.
- ❖ The newly constructed passenger terminal building and a cargo gate named 'Maitri Dwar' at the Land Port in Petrapole has inaugurated on the India-Bangladesh border in West Bengal.
- ❖ The Government has launched BRIC - National Agri-Food Biomanufacturing Institute (BRIC-NABI), at Mohali in Punjab to revolutionizing the agri-food sector through advanced biotechnology.

TAMIL NADU

Megalithic burial site at Amoor

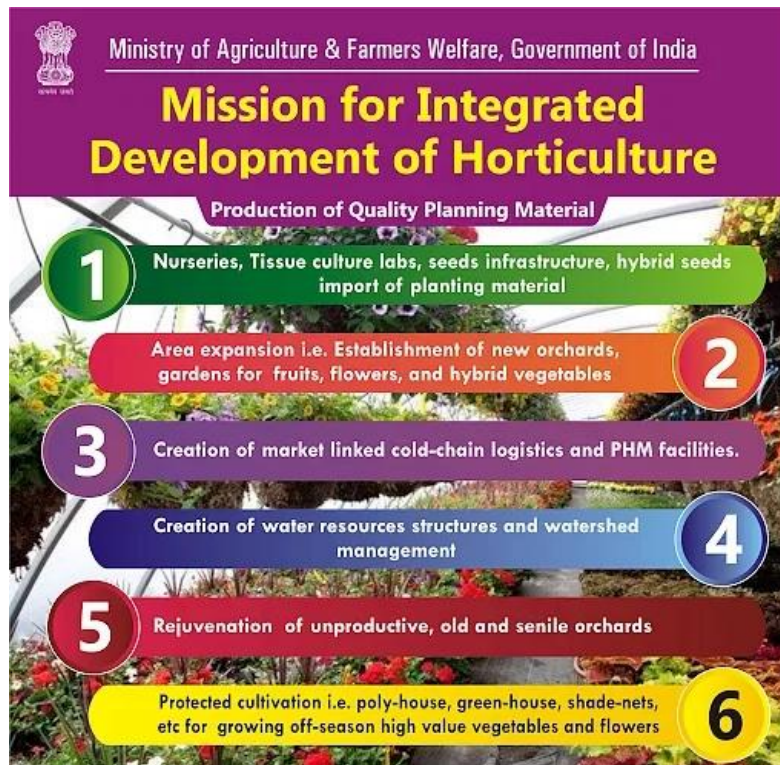
- ❖ The Archaeological Survey of India (ASI) Chennai Circle has planned to undertake excavation at Amoor.
- ❖ It is a protected site located on the banks of lower Palar River valley near Thiruporur in Chengalpattu district.
- ❖ The ASI, in 1921, had discovered a megalithic burial site having cists and cairns in a 130-acre odd parcel of land located in Amoor village in the lower Palar valley.
- ❖ The ancient burial site is believed to be 2000 years old.

- ❖ In 2007 had unearthed megalithic sarcophagus, iron objects and carnelian beads at Siruthavur, a site believed to be 2500 years old.



NATIONAL

MIDH expansion



- ❖ The Union Government has decided to include four new components – Hydroponics, Aquaponics, Vertical Farming, and Precision Agriculture under the Mission for Integrated Development of Horticulture (MIDH).

- ❖ MIDH is a Central Sponsored Scheme.
- ❖ It promotes the cultivation of fruits, vegetables, root and tuber crops, mushrooms, spices, flowers, aromatic plants, coconut, cashew, cocoa and bamboo.
- ❖ India's total horticulture production increased to 334.60 million metric tonnes in 2020-21 from 240.53 million metric tonnes in 2010-11.
- ❖ India is the second largest producer of fruits and vegetables in the world.
- ❖ The annual allocation of the MIDH is Rs 2,000 crore for the current financial year (2024-25).

Act4Dyslexia Campaign

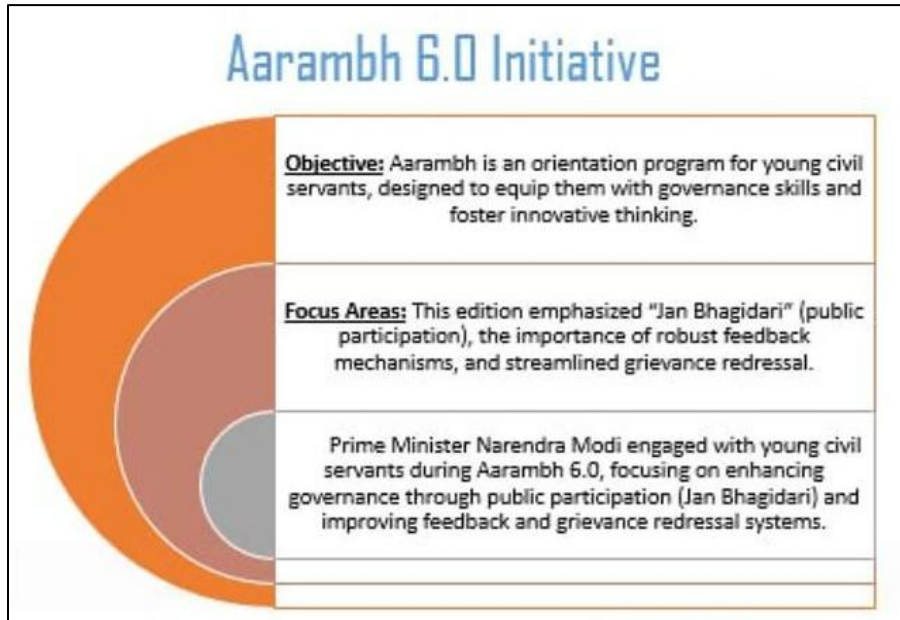


- ❖ The Rashtrapati Bhavan, South Block, and the Parliament were illuminated in red to raise awareness about dyslexia.
- ❖ The nation-wide 'Act4Dyslexia campaign' is aimed at raising awareness about this learning disabilities.
- ❖ Dyslexia are estimated to affect 20 per cent of India's population, including 35 million students.

Aarambh 6.0 Initiative

- ❖ Prime Minister engaged with young civil servants during Aarambh 6.0.
- ❖ It will be focusing on enhancing governance through public participation (Jan Bhagidari) and improving feedback and grievance redressal systems.

- ❖ Aarambh is an orientation program for young civil servants, designed to equip them with governance skills and foster innovative thinking.



Standard Veterinary Treatment Guidelines for Animals



- ❖ The Department of Animal Husbandry and Dairying (DAHD), has released the "Standard Veterinary Treatment Guidelines (SVTGs)" for livestock and poultry.
- ❖ The SVTGs have been developed in collaboration with the FAO and supported by the UN Agency for International Development (USAID).
- ❖ It aims to deliver standardised, rational treatment for a variety of animal diseases, thus ensuring improved animal health and veterinary care across India.

- ❖ It includes recommended treatments with dosage, route, duration of treatment for various drugs also including antimicrobial drugs, withdrawal periods, potential side effects, and decision criteria for first-line treatments.

Namo Drone Didi Scheme Guidelines



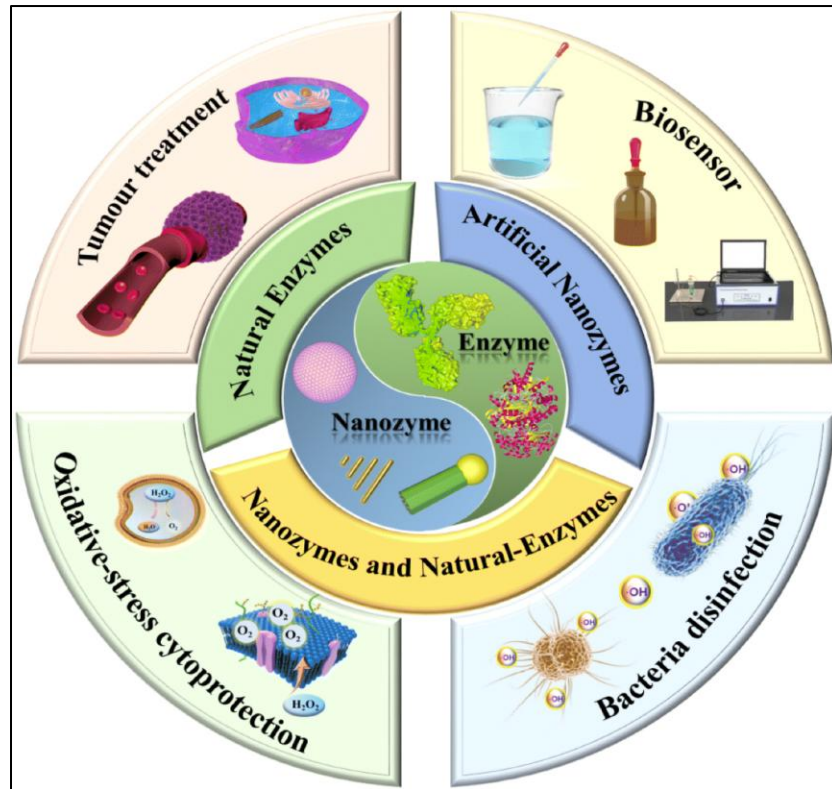
- ❖ The Government has released the Operational Guidelines of the Central Sector Scheme Namu Drone Didi.
- ❖ The scheme aims to provide drones to 14 thousand 500 selected Women Self Help Groups during the period from 2024-25 to 2025-2026.
- ❖ Eighty per cent of the cost of drone and accessories charges up to a maximum of eight lakhs will be provided to the women Self Help Groups for purchase of drones.
- ❖ One of the members of the women Self Help Groups will be selected for 15-day training.
- ❖ It will be comprising mandatory drone pilot training and additional training for agriculture purpose for nutrient and pesticide application.

SCIENCE AND TECHNOLOGY

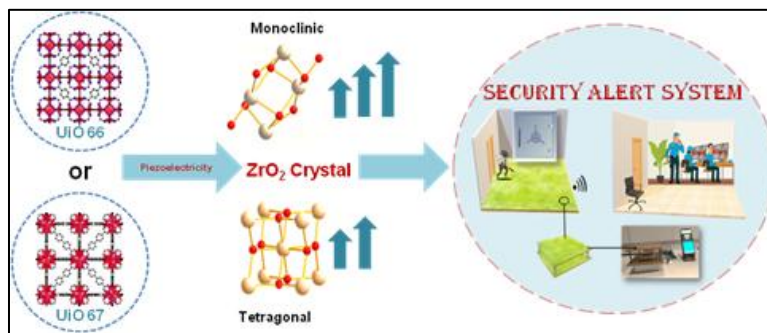
Nanozymes - study by the CSIR

- ❖ A CSIR-CLRI study has showed that nanozymes can ensure collagen's integrity and enhance resistance to enzymatic degradation.

- ❖ Nanozymes are nanomaterials that function like enzymes.
- ❖ Manganese-based oxidase nanozyme (MnN) presents significant potential in the biomedical field.



New Security alert system



- ❖ The Researchers at the Centre for Nano and Soft Matter Sciences (CeNS) have developed a safety warning system based on the piezoelectric polymer nano composites.
- ❖ This nanocomposite material can be useful for pressure sensing and energy harvesting applications.

- ❖ The metal oxide nanomaterials with the suitable crystal structure and surface properties when used as fillers in polymer composites significantly enhance the piezoelectric response.
- ❖ Researchers synthesized two zirconia-based metal-organic frameworks (UiO-66 and UiO-67).

ENVIRONMENT

Coral Triangle 2024



- ❖ The Serious dangers brought by fossil fuel expansion to the Coral Triangle, were highlighted by a report released at COP16 to the Convention on Biological Diversity (CBD).
- ❖ The Coral Triangle, often referred to as the ‘Amazon of the seas’, is a huge marine area spanning over 10 million square kilometres.
- ❖ It includes countries like Indonesia, Malaysia, Papua New Guinea, Singapore, the Philippines, Timor-Leste, and the Solomon Islands.
- ❖ This region is home to 76 per cent of the world’s coral species and supports more than 120 million people who rely on its resources for their livelihoods.

REPORTS AND INDICES

Global Tuberculosis report 2024

- ❖ The World Health Organization (WHO) has released its Global Tuberculosis (TB) Report 2024.

- ❖ Of the estimated 10.84 million people who fell ill with TB in 2023, only 8.16 million were detected and notified, leading to a gap of 2.7 million cases.
- ❖ This is the highest number recorded since WHO began global TB monitoring in 1995.
- ❖ Thus, the TB become the leading infectious killer again, surpassing Covid-19 in 2023.
- ❖ There is a massive funding gap for TB programs, only \$ 5.7 billion of the \$ 22 billion funding target was available in 2023.
- ❖ Globally, TB incidence rose by 4.6% between 2020 and 2023.
- ❖ This reverses the declines of about 2% per year for most of the past 2 decades.
- ❖ India had an estimated 28 lakh TB cases in 2023, accounting for 26% of the global cases.
- ❖ There were estimated 3.15 lakh TB-related deaths, accounting for 29% of the deaths globally.

Estimates of TB burden

Estimates of TB burden are produced by WHO in consultation with countries. Ranges represent uncertainty intervals.

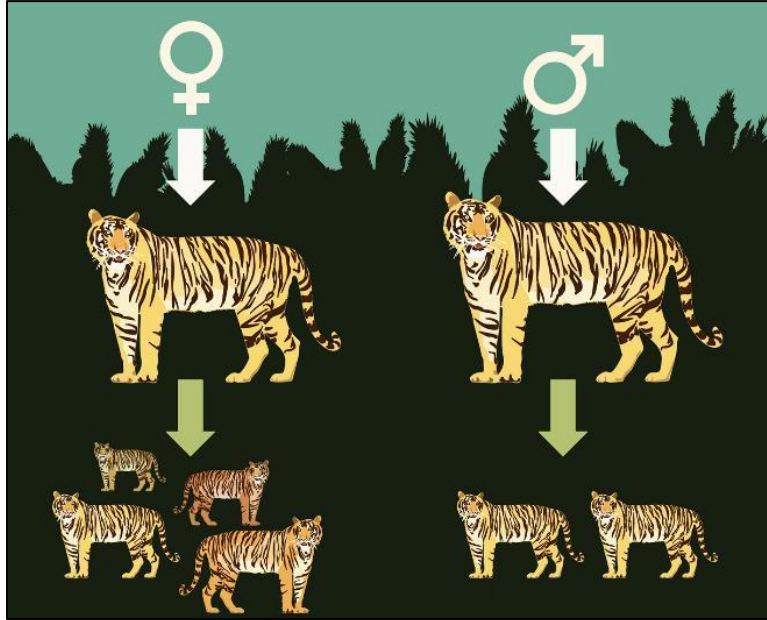
	Number	Rate per 100 000 population
Total TB incidence, 2023	10 800 000 (10 100 000–11 700 000)	134 (125–145)
TB incidence in people living with HIV, 2023	662 000 (589 000–739 000)	8.2 (7.3–9.2)
Multidrug-resistant or rifampicin-resistant TB (MDR/RR-TB) incidence, 2023	400 000 (360 000–440 000)	5 (4.5–5.5)
TB deaths in HIV-negative people, 2023	1 090 000 (977 000–1 200 000)	13 (12–15)
TB deaths in people with HIV, 2023	161 000 (132 000–193 000)	2 (1.6–2.4)

STATES

Tiger Translocation for Genetic Diversity

- ❖ A tigress from the Tadoba-Andhari Tiger Reserve in Maharashtra moved to the Similipal Tiger Reserve (STR) in Odisha.
- ❖ The translocation project is part of Odisha government's efforts to improve the gene pool of tigers inside the reserve.
- ❖ Similipal is the country's only wild habitat for melanistic royal Bengal tigers.

- ❖ The Odisha Tiger Estimation conducted this year found that out of the total 24 adult tigers in Similipal, 13 are pseudo-melanistic.



Mizo-Carnivorous Conservation Project



- ❖ The wildlife wing of the Pune Forest department has recently proposed an umbrella conservation project covering the five wild animal species namely wolf, jackal, fox, civet and hyena.

- ❖ Together, these species are called 'Mizo-Carnivorous' by the forest department.
- ❖ These species mainly belong to the dog and cat family.

IMPORTANT DAYS

World Tsunami Awareness Day 2024 - November 05

- ❖ In December 2015, the UN General Assembly designated this day.
- ❖ It aims to raise tsunami awareness and share innovative approaches to the risk reduction.
- ❖ In the past 100 years, 58 Tsunamis have claimed more than 260,000 lives.
- ❖ November 5 was chosen to commemorate the story of "Inamura-no-hi" (The Burning of the Rice Sheaves).
- ❖ On this day in 1854, A Japanese villager set fire to his rice stacks in hill top as a warning to his neighbours, saving their lives from an approaching tsunami.

