



July - 07

TNPSC BITS

- The Fintech company Slice launched the Slice UPI credit card and India's first UPI-powered physical bank branch and ATM.
- The Karnataka Cabinet has approved renaming Bengaluru City University as Dr. Manmohan Singh City University to very honouring the former Prime Minister's legacy.
- The National Institute of Public Cooperation and Child Development (NIPCCD) of Delhi has been renamed as Savitribai Phule National Institute of Women and Child Development.
- The Narcotics Control Bureau (NCB), under Operation MED MAX, dismantled a drug cartel operating in over 10 countries across Asia, North America, Europe, and Oceania.
- Jio has become the world's largest Fixed Wireless Access (FWA) provider by the subscriber count by overtaking the United States (US)-based telecom company T-Mobile in total subscribers.
- Canada withdrew its 3% digital services tax on U.S. tech firms, which had been set to start on June 30, 2025, to support trade talks with the United States.
- Tamil Nadu higher education department has released a draft model code of conduct for college teachers.
 - This will help colleges and universities develop their own specific guidelines for teachers on posting videos and posts on social media.
- The first-ever national conference of Urban Local Body (ULB) chairpersons from Indian States and Union Territories (UTs) was held in Manesar, Gurugram, Haryana.
 - The event aims to strengthen the voice of ULBs in India's democratic system and support their important role in local governance.
- Puducherry has become the first state to include the tuberculosis (TB) screening under the "Family Adoption Program."
 - Under this initiative, the medical students adopt families for regular health outreach and monitoring.

TAMIL NADU NEWS

Coimbatore Master Plan 2041

Tamil Nadu Chief Minister released the Coimbatore Master Plan 2041 in Chennai.





- ✤ The plan is based on Geographic Information System (GIS) technology.
- It covers the Coimbatore Local Planning Area which is spread over 1,531 square kilometres.
- The plan was prepared by the Directorate of Town and Country Planning under the Housing and Urban Development Department.
- ◆ In the revised land use plan, 33% of the area is marked as green zone.
- ✤ The remaining land is opened up for urban and infrastructure development.
- The plan is designed for the projected population growth up to 60 lakh (6 million) by 2041.



NATIONAL NEWS

RDI Scheme

- The Union Cabinet approved the Research, Development and Innovation (RDI) Scheme 2025.
- ◆ The scheme has a total funding of ₹99,771 crore (Indian Rupees) or US\$11.65 billion.
- ✤ It aims to improve India's investment in research and deep-tech.
- India currently spends only 0.64% of Gross Domestic Product (GDP) on research and development.





- Other countries like the United States, Japan, and China spend between 2% and 5% of GDP.
- ✤ The funds will be given as interest-free loans for 50 years.
- * The Anusandhan National Research Foundation (ANRF) will manage the funds.
- The plan includes support for the commercialising research and setting up lab infrastructure.
- The scheme will help the move research from basic ideas (TRL-4) to fully ready technologies (TRL-9).
- The Technology Readiness Level (TRL) measures the stage of development of a new invention.



ELI Scheme

- The Union Cabinet has approved the Employment Linked Incentive (ELI) Scheme 2025.
- The scheme has a total budget of ₹99,446 crore.
- ✤ It will be active from 1 August 2025 to 31 July 2027.
- ✤ The goal is to create over 3.5 crore (35 million) jobs in two years.
- Out of these, about 1.92 crore (19.2 million) jobs will be for first-time workers.

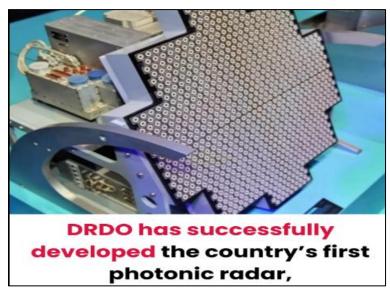




- The scheme gives the incentives to employees who register with the Employees' Provident Fund Organisation (EPFO) for the first time.
- The Employees will get their payments through the Direct Benefit Transfer (DBT) using Aadhaar.



First Photonic Radar



 India's Defence Research and Development Organisation (DRDO) has developed the country's first fully indigenous photonic radar.





- The radar uses the light-based components like lasers and photonic integrated circuits (PICs) instead of traditional radio waves.
- It operates at around 11 gigahertz (GHz) bandwidth, allowing it to detect stealth aircraft and small drones.
- The system provides a high resolution of about 1.3 centimetres, making it capable of spotting even tiny parts like drone blades.
- Its optical signal processing makes it naturally resistant to electronic jamming and deception.
- The radar is compact and energy-efficient, suitable for platforms like Su-30MKI, Tejas, Rafale jets, naval ships, and air defence units.

Facial Recognition for POSHAN Abhiyaan



- Facial recognition is mandatory for pregnant and lactating women to get takehome rations under POSHAN Abhiyaan (National Nutrition Mission) from July 1, 2025,
- The Ministry of Women and Child Development (MoWCD) updated the POSHAN Tracker app to remove the option to skip facial recognition.
- Anganwadi workers must reinstall the app to use the new version for biometric verification.
- The scheme targets children aged 6-36 months, pregnant women, and lactating mothers under the Integrated Child Development Services (ICDS).





 Children aged 3-6 years will also need to undergo 'liveliness detection' to prove they are real persons during biometric checks.

India's Darknet Drug Bust

- The Narcotics Control Bureau (NCB) conducted the Operation Melon to stop a big darknet drug group named Ketamelon.
- It was run by a person who bought the Lysergic Acid Diethylamide (LSD) and the ketamine from UK and sold them online using cryptocurrency.
- ✤ LSD is a hallucinogenic drug made from a fungus.
- ✤ It causes visual trips, mood changes, and affects the brain's serotonin system.
- Ketamine is an anaesthetic that causes dream-like and out-of-body feelings.



India's First QR Code House Address Project

- Indore Municipal Corporation has begun a new digital project in Madhya Pradesh (MP).
- Special plates with the Quick Response (QR) codes are being fixed outside every house.

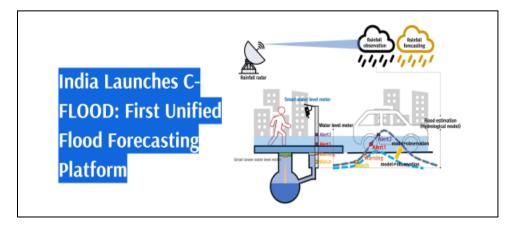




- People can scan the QR code to see the house's Global Positioning System (GPS) location on their mobile phones.
- The Citizens can use the QR system to pay property and water taxes or file complaints.
- The project is connected to the central government's Digipin (Digital Postal Index Number) system.



C-FLOOD Platform



- C-FLOOD is a web-based platform providing two-day advance flood forecasts up to village level with flood maps and water level predictions.
- The system integrates flood modelling data from national and regional agencies for improved disaster management.

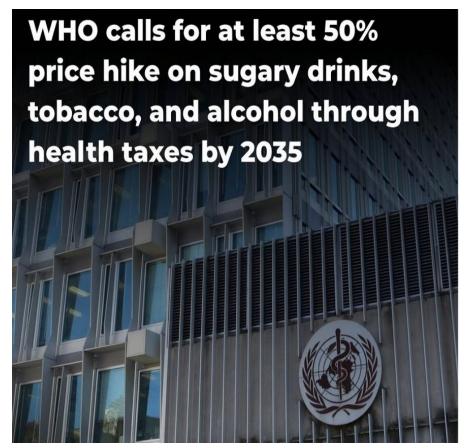




- Currently, C-FLOOD covers Mahanadi, Godavari, and Tapi river basins, with the plans to include more basins soon.
- It also uses the advanced two-dimensional hydrodynamic modelling and High-Performance Computing (HPC) under National Supercomputing Mission (NSM).
- The platform is developed by Centre for Development of Advanced Computing (C-DAC), Pune, and Central Water Commission (CWC).

INTERNATIONAL NEWS

"3 by 35" initiative – WHO



- ◆ The World Health Organization (WHO) has launched a "3 by 35" initiative.
- It was urging countries to raise real prices on tobacco, alcohol, and sugary drinks by at least 50 per cent by 2035 through health taxes.
- ✤ It is designed to curb chronic diseases and generate critical public revenue.
- ✤ As per the WHO data, the consumption of tobacco, alcohol, and sugary drinks are fuelling the epidemic of non-communicable diseases.



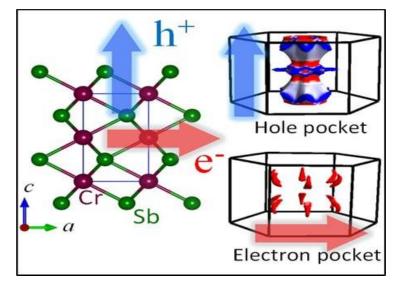


 NCDs, including heart disease, cancer, and diabetes, account for over 75 per cent of all deaths worldwide.

SCIENCE AND TECHNOLOGY NEWS

A New magnetic Material for Future Electronics

- ✤ The Scientists found a rare behaviour in a magnetic material called chromium antimonide (CrSb).
- ✤ It is part of a new class called altermagnets.
- It has the best features of both ferromagnets and antiferromagnets.
- The researchers from the S N Bose National Centre for Basic Sciences (SNBNCBS) found CrSb changes behaviour based on current direction.
- This material acts like n-type (electrons) along one direction and p-type (holes) in another, showing direction-dependent conduction polarity (DDCP).
- ✤ It is the first known altermagnet to show this rare duality.
- This can simplify devices by removing the need for separate materials or doping.
- ◆ CrSb is also eco-friendly and ideal for next-gen electronics like spintronics.



First Indigenous Dengue Vaccine

- India's first indigenous tetravalent dengue vaccine, DengiAll, has reached 50% enrolment in Phase 3 clinical trials.
- DengiAll is developed by Panacea Biotec under a license from the US National Institutes of Health (NIH).





- The vaccine targets all four dengue virus subtypes (DEN-1, DEN-2, DEN-3, DEN-4).
- Dengue is a mosquito-borne viral disease spread by the female Aedes aegypti mosquito.



MISCELLANEOUS NEWS

Ancient Egyptian Genome



- Researchers have sequenced the first whole ancient Egyptian genome from an individual who lived 4,500 to 4,800 years ago.
- This is the oldest DNA sample from Egypt to date.





- The body belongs to an adult male who died more than 4,500 years ago during Egypt's Old Kingdom.
- ✤ About 22% of his DNA is a close match to early farmers from Mesopotamia (present-day Iraq, western Iran, southern Syria, southeast Turkiye).
- Previously, only three ancient Egyptian genetic datasets were available from later periods —787 cal. BCE to 23 cal. CE.

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