



November - 03

TNPSC BITS

- ✤ Lahore has once again become the world's most polluted city, with an alarming AQI about 700.
- The Wagh Bakri Tea Group has received the "Generational Legacy Award for Outstanding Contribution to the Indian Economy" from Hurun India.
- The Centre has launched the 'International Incoming Spoofed Calls Prevention System' which identifies and blocks incoming international calls posing as Indian phone numbers.
- The 15th ITU Kaleidoscope Academic Conference, themed "Innovation and Digital Transformation for a Sustainable World", was held New Delhi,

NATIONAL

Ayushman Vaya Vandana Card



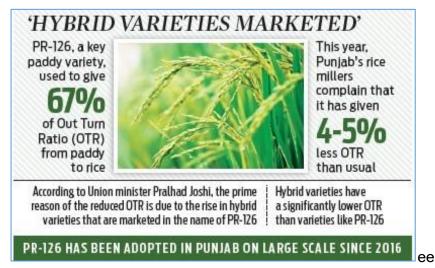
- The Centre has extended his government's flagship health insurance scheme Ayushman Bharat to all senior citizens aged 70 years and above.
- These senior citizens will be issued the Ayushman Vaya Vandana Card.





- Regardless of their financial status or income, all people 70 years of age and above are eligible.
- Free health coverage up to Rs 5 lakh annually is under this expanded scheme.
- Ayushman Vaya Vandana Card is universal and there is no restriction on income, be it poor or middle class or upper class.
- PMJAY aims to provide health cover of Rs. 5 lakhs per family per year for secondary and tertiary care hospitalization.
- ✤ It covers approximately 55 crore beneficiaries corresponding to 12.34 crore families of the bottom 40% of India's population.

Paddy Variety PR-126



- ✤ It was, introduced in 2016, the short-duration paddy variety PR-126 widely cultivated in Punjab region.
- The variety became popular among farmers for its shorter growth period, high yield, minimal pesticide requirements, and excellent OTR.
- ✤ It offers an average yield of over 30 quintals per acre.
- The state has seen a record-high area under paddy cultivation (roughly 32 lakh hectares) in the 2023-24 and 2024-25 seasons.
- Now it turned out for its lower out-turn ratio (OTR, which refers to the post milling yield).

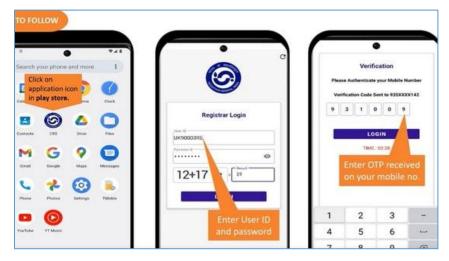
CRS Mobile App

The Centre launched the Civil Registration System (CRS) mobile application to "integrate technology with governance".

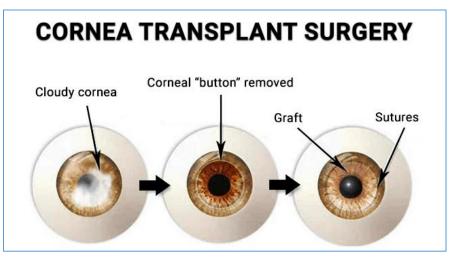




- This application will make registration of births and deaths seamless and hasslefree by allowing citizens to register at any time, from any place, and in their State's official language.
- All reported births and deaths in the country occurring from October 1, 2023 are to be digitally registered through the Centre's portal dc.crsorgi.gov.in.



Cornea Transplantation



- The Ministry of Health and Family Welfare may amend the Transplantation of Human Organs and Tissues Act (THOTA), 1994.
- It aims to facilitate the retrieval of cornea from all Indian patients who die in hospitals, without consent from the family.
- Going by the new initiative, corneas could be retrieved from all citizens who die in hospitals without the consent of the family.
- This means that every person dying in a hospital would be presumed to be a cornea donor.

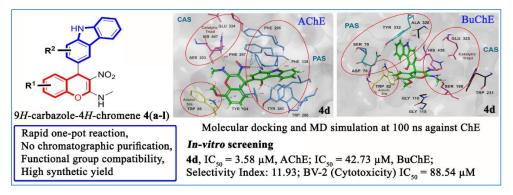




- ✤ However, those not willing to donate cornea should have registered their unwillingness to donate while alive
- Currently the country is being able to meet only 50% of the requirement by donation.

SCIENCE AND TECHNOLOGY

New non-toxic molecules treatment



- Scientists at the Agharkar Research Institute in Pune have developed new nontoxic molecules for treating Alzheimer's disease.
- The team utilised a combination of synthetic, computational, and in vitro studies that could be effective in the treatment of neurodegenerative diseases.
- ✤ Alzheimer occurs due to an imbalance in certain hormones.
- It is the most common form of dementia and affects 60 to 70 percent of the 55 million people worldwide.
- The newly developed molecules were found to effectively target cholinesterase enzymes, enhancing the availability of acetylcholine, which is crucial for memory and learning.

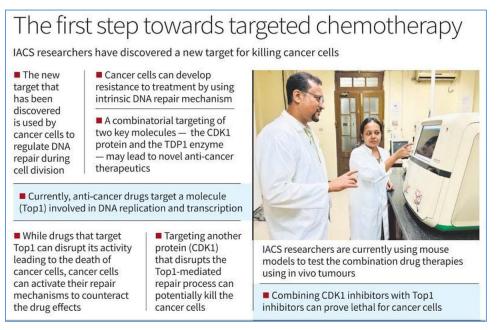
New target for cancer therapy

- Researchers have found a promising new target for cancer therapy, for patients who develop resistance to existing treatments.
- The scientists focused on a DNA repair enzyme, TDP1, which may be key to a new combination therapy.
- Current cancer drugs like Camptothecin, Topotecan, and Irinotecan target the enzyme Topoisomerase 1 (Top1) crucial for DNA replication.
- However, cancer cells often become resistant to these drugs.





But these two proteins, Cyclin-dependent kinase 1 (CDK1) and Tyrosyl-DNA phosphodiesterase 1 (TDP1), play critical roles in this repair process.



ENVIRONMENT



Snowless Mount Fuji

- Until November, Japan's famous Mount Fuji remains snowless.
- This is making it the latest time in the year, the mountain has remained bare since records began 130 years ago.





The latest date beats the previous record set on October 26 in both 1955 and 2016.

REPORTS AND INDICES

Review of maritime transport 2024



- The Review of Maritime Transport 2024 has been released by the UN Trade and Development (UNCTAD).
- Maritime trade, which grew by 2.4% in 2023 to reach 12,292 million tons, had begun to recover after a contraction in 2022.
- ✤ The report noted that Container trade, which grew by just 0.3% in 2023, is expected to rebound by 3.5% in 2024.
- ✤ The supply of container ship capacity grew by 8.2% in 2023.
- ♦ Global ton-miles rose by 4.2% in 2023, driving up costs and emissions.
- Key maritime chokepoints, like the Suez and Panama Canals faced unsettling disruptions.

STATES

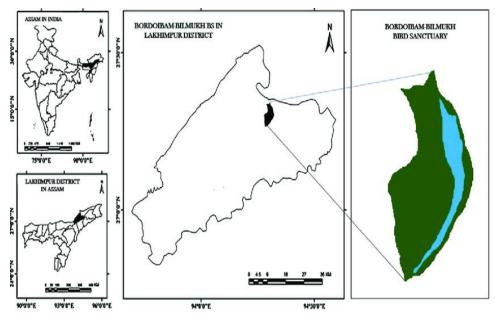
Assam's Bordoibam-Bilmukh Bird Sanctuary

◆ Recent surveys in the Bird Sanctuary indicate a drop of over 70% in bird species.

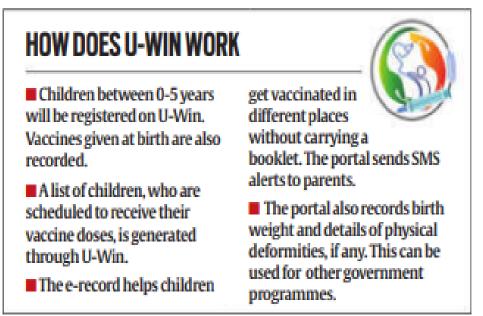




- ✤ Of 167 recorded species, only 47 remain.
- India has 1,377 recorded species and in those Assam is home to over 900 bird species.
- Assam lies along two major migratory flyways the Central Asian and East Asian-Australasian routes.



U-WIN portal



 Union government launched the U-WIN portal digital platform for streamlining Haryana's immunisation services.





- ✤ The portal follows the successful rollout of the eVIN and Co-WIN platform.
- It provides the universal and equitable access to essential health services for all citizens, which will aid the state's Universal Immunisation Programme (UIP).

SPORTS

Under-23 World Wrestling 2024

- India capped a rich haul of nine medals.
- Chirag Chikkara became the Under-23 world champion.
- He becomes the second Indian man, after Paris Olympics bronze medallist Aman Sehrawat, to win the gold at the U23 Championships.
- Iran has topped the team rankings with 158 points followed by Japan (102), Azerbaijan (100) and India (82).
- The Indian women's wrestling team also excelled earlier, bringing home one silver and three bronze medals.
- ✤ Anjli claimed silver in the 59kg category, while Neha Sharma (57kg), Shiksha (65kg), and Monika (68kg) each secured bronze.



IMPORTANT DAYS

State Formation Day 2024 - November 01

November 1 marks the formation day for eight Indian states - Andhra Pradesh, Chhattisgarh, Haryana, Karnataka, Kerala, Madhya Pradesh, Punjab and Tamil Nadu.





- ◆ Tamil Nadu was created on 1 Nov 1956 with the name Madras State.
- ✤ It was renamed later to Tamil Nadu in July (18) 1967.
- Andhra Pradesh was formed on 1 Nov 1956 after it was bifurcated from United Andhra Pradesh.
- Chhattisgarh was formed as a state on 1 Nov 2000.
- Haryana was formed as a state on 1 Nov 1966 after it was carved out of the former state of East Punjab on a linguistic basis.
- ✤ Karnataka came into existence on 1 Nov 1956 as Mysore state.
- ✤ It was later renamed Karnataka in 1973.
- Kerala was formed on 1 Nov 1956 following the passage of the States Reorganisation Act.
- Madhya Pradesh state was formed on 1 Nov 1956 following the reorganisation of the states.
- Punjab Day is also celebrated across the state on November 1 marking the formation of the state under the Punjab Reorganisation Act (1966).



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