

April - 15

## TNPSC BITS

- ❖ A mobile app called TN-Alert is to be launched to provide information on location-based disaster warnings, thunder, lightning, rain and water availability of reservoirs to the public.
- ❖ MF Hydra, a hybrid vessel utilising batteries and liquid hydrogen fuel cells recently completed two weeks of sea trials in Norway.
- ❖ The External Affairs Minister of India launched 'Tulsi Ghat Restoration Project' during his visit to Uganda's Kampala.
- ❖ An information stealing malware that is usually delivered through email, known as Raccoon Stealer, was used to target eight Central government entities.
  - It is an information stealer malware that retrieves sensitive data from infected machines.

## TAMIL NADU

### Vanniyakula Kshatriya Public Charitable Trusts and Endowments Board



- ❖ Tamil Nadu government reconstituted the Tamil Nadu Vanniyakula Kshatriya Public Charitable Trusts and Endowments Board.

- ❖ Retired IAS officer M. Jayaraman was chosen as its chairperson.
- ❖ The term of office of the Chairperson and Members of the Board is for a period of three years from the date of issue of notification.

### **Closure of Retail shops**

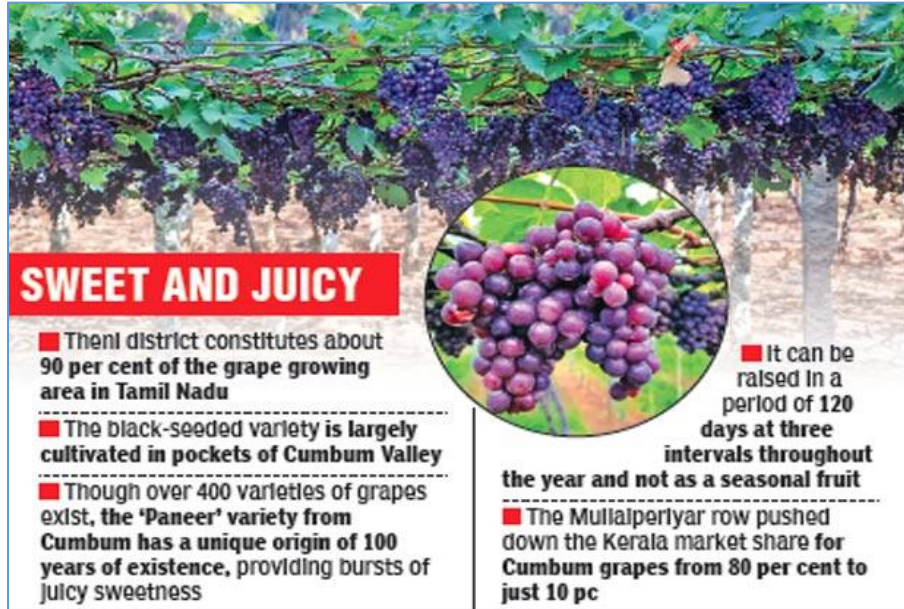


- ❖ Tamil Nadu will close down 500 retail shops run by the Tamil Nadu State Marketing Corporation Limited (Tasmac) this year.
- ❖ The 500 shops to be identified and closed will account for roughly 10% of the 5,329 retail shops run by Tasmac.
- ❖ This will be the third time such a large number of Tasmac shops will be closed down.
- ❖ Late Chief Minister Jayalalithaa announced the closure of 500 shops when she returned to power in 2016.
- ❖ Edappadi K. Palanisamy announced the closure of another 500 shops when he became the Chief Minister in 2017.

### **GI tag for Cumbum grapes**

- ❖ The Cumbum grapes (Cumbum Panneer Thratchai) has got Geographical Indication tag.
- ❖ The Cumbum valley located at the Western Ghats in Tamil Nadu is known as the 'Grape's city of South India'.

- ❖ The Panneer grapes were first introduced in Tamil Nadu by a French priest in 1832.
- ❖ These grapes are rich in vitamins, tartaric acid and antioxidants and reduces the risk of some chronic diseases.



## NATIONAL

### President on Sukhoi 30 MKI



- ❖ President Droupadi Murmu took a sortie on the Sukhoi 30 MKI fighter aircraft from Tezpur Air Force Station in Assam.
- ❖ Murmu became the third President and second woman President to fly in a fighter aircraft.

- ❖ Former President Pratibha Patil flew in the Sukhoi-30 MKI fighter jet in 2009 from the Pune air force base.

## **E-Waste (Management) Rules, 2022**



### Developing an Ecosystem to Recycle and Manage e-Waste

IIT Hyderabad launched M-Tech Course on e-Waste Resource in support with CMET and Meity

The course will offer students to study & learn

- ✔ Various technologies for recycling of e-waste
- ✔ The recovery of metals and plastics
- ✔ Life cycle analysis and carbon footprint calculations
- ✔ Chain and supply management
- ✔ Artificial intelligence based techniques to develop an effective recycling system
- ✔ Case studies and thesis work to facilitate in developing new technological and viable solutions

- ❖ The E-Waste (Management) Rules, 2022 kicked in from April 1, 2023.
- ❖ The first set of e-waste Rules was notified in 2011 and came into effect in 2012.
- ❖ The latest rules introduce the new Extended Producer Responsibility (EPR) regime that will apply to every manufacturer, producer, refurbisher, dismantler and recycler of electronic products.
- ❖ It restricted the use of hazardous substances in manufacturing electrical and electronic equipment (EEE).



- ❖ It mandates the reduction of the use of lead, mercury, cadmium among others in the manufacturing of electronic equipment.
- ❖ The manufacturer is Responsible to collect e-waste generated during manufacture and to ensure its recycling or disposal.
- ❖ However, the rule does not apply to waste batteries, packaging plastics, micro enterprises and radio-active waste, as covered under the provisions of the law.

### **Dogri version of Indian Constitution**



- ❖ Union Minister of Law released the first edition of the Dogri version of the Indian Constitution at the University of Jammu.
- ❖ It is a significant step towards promoting linguistic diversity and preserving the cultural heritage of the country.
- ❖ Dogri is a language spoken in the northern Indian state of Jammu and Kashmir.
- ❖ It is one of the 22 recognized official languages of India.
- ❖ Bodo, Dogri, Maithili, and Santhali were added into Eighth Schedule by the 92nd Amendment Act of 2003.

### **Vibrant Villages Programme**

- ❖ The centre launched 'Vibrant Villages Programme' at Kibithoo - a border village in Arunachal Pradesh.
- ❖ It is aimed to changed people's approach towards border villages.
- ❖ This program will help in improving the standard of living of the people of the border villages and encourage them to stay in their places.

- ❖ It will prevent migration from these villages and also strengthen the security of the border
- ❖ It has been identified for comprehensive development under the Programme 2967 villages in 46 blocks of 19 districts
- ❖ They located all along the northern border in Arunachal Pradesh, Sikkim, Uttarakhand, Himachal Pradesh and the Union Territory of Ladakh.



The infographic features logos for PIB, Azadi Ka Amrit Mahotsav, and G20 at the top. The title 'VIBRANT VILLAGES PROGRAMME' is in large blue letters. The main text is organized into two columns. The left column lists key facts: the scheme is centrally sponsored for FY 2022-23 to 2025-26, with a financial allocation of Rs. 4800 Cr, and it targets infrastructure and livelihood opportunities in 4 states and 1 UT along the northern land border. The right column, titled 'Benefits:', lists three points: inclusive growth of villages on the northern border, improved quality of life, and reversed outmigration leading to improved security.

**VIBRANT VILLAGES PROGRAMME**

- Cabinet approves Centrally Sponsored Scheme- **"Vibrant Villages Programme"** for the FY 2022-23 to 2025-26
- Financial allocation of scheme is **Rs. 4800 Cr**
- Will lead to infrastructure development and livelihood opportunities in **4 states and 1 UT along the northern land border**

**Benefits:**

- Inclusive growth of villages on northern border
- Will improve the quality of life of people
- Will reverse the outmigration adding to improved security

### **Best public transport in the world 2023**

- ❖ This data was compiled by 'Time out' agency over 50 cities across the globe.
- ❖ Mumbai ranks 19<sup>th</sup> in list of 'world's best' cities for public transport.
- ❖ Berlin, Prague, Tokyo, Copenhagen, Stockholm are the top 5 cities with best public transit system.
- ❖ Mumbai is the only Indian city to feature in the list.

## **ECONOMY**

### **FPI destinations in FY23**

- ❖ Overseas flows into Indian capital markets originating from tax-haven Mauritius witnessed the sharpest decline.
- ❖ Norway and Singapore gained favour in 2022-23.
- ❖ The total assets under custody (AUC) from Mauritius declined nearly 42 per cent to Rs 6.66 trillion at the end of March 2023.
- ❖ This was Rs 10.88 trillion a year ago.

- ❖ Norway and Singapore saw a 13 per cent and 5 per cent increase in AUC, respectively.

## SOURCE OF MONEY

Overall, FPI AUC fell 4.44% in FY23 partly due to asset price depreciation and partly due to capital outflows

	Total AUC (₹trillion)		Share (%)		YoY chg (%)	
	Mar '22	Mar '23	Mar '22	Mar '23	AUC	Share
● US	18.61	19.19	36.50	39.40	3.14	2.89
● Singapore	4.33	4.56	8.50	9.37	5.28	0.86
● Luxembourg	3.91	3.64	7.66	7.47	-6.92	-0.20
● Mauritius	5.55	3.25	10.88	6.66	-41.50	-4.22
● UK	2.67	2.55	5.23	5.24	-4.24	0.01
● Ireland	2.43	2.38	4.76	4.89	-1.80	0.13
● Canada	1.64	1.55	3.21	3.18	-5.39	-0.03
● Norway	1.30	1.47	2.56	3.02	12.85	0.46
<b>Total</b>	<b>50.97</b>	<b>48.71</b>	<b>100</b>	<b>100</b>	<b>-4.44</b>	<b>0</b>

Note: Total includes other jurisdictions; AUC: Assests under custody Source: NSDL

## SCIENCE AND TECHNOLOGY

### AI Model DAGGER

- ❖ A new AI-powered computer model called DAGGER is specifically trained to predict precisely when and where solar storms will strike Earth.
- ❖ This AI to examine data from NASA's spacecraft observations of the solar wind and forecast the location of an impending solar storm anywhere on Earth.
- ❖ It can currently predict a geomagnetic disturbance 30 minutes before the event.

## ENVIRONMENT

### Deepest fish ever

- ❖ Scientists have captured footage of a fish swimming more than 8 km underwater.
- ❖ This setting is a new record for the deepest fish ever recorded.
- ❖ The animal is an unknown snailfish species belonging to the genus Pseudoliparis.
- ❖ It was filmed at a depth of 8,336 metres in the Izu-Ogasawara trench, south-east of Japan.

- ❖ Scientists also caught two other snailfish, of the species *Pseudoliparis belyaevi*, in the Japan trench from a depth of 8,022 metres.
- ❖ At 8,000 metres underwater, the pressure is 800 times greater than at the ocean surface.



### **Amolops siju**



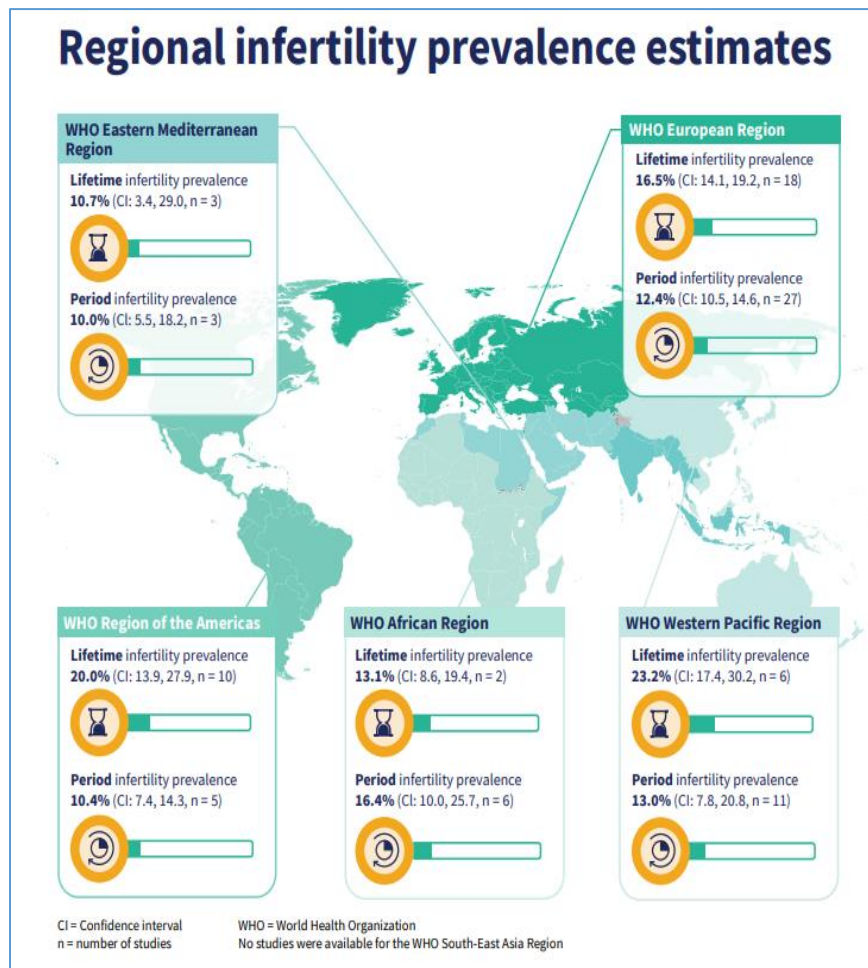
- ❖ Recently, researchers have discovered a new species of frogs from Siju cave system in the South Garo Hills district of Meghalaya.
- ❖ This is an uncommon habitat for this group of frogs, which is commonly found around cascades.
- ❖ It is a new species of the marmoratus group from a cave ecosystem.



- ❖ This is the second time that a frog was discovered from inside a cave in the country.
- ❖ The first being the discovery of the *Micrixalus spelunca* in 2014 from a cave in Tamil Nadu.

## REPORTS AND INDICES

### Infertility Prevalence Estimates 1990–2021 Report



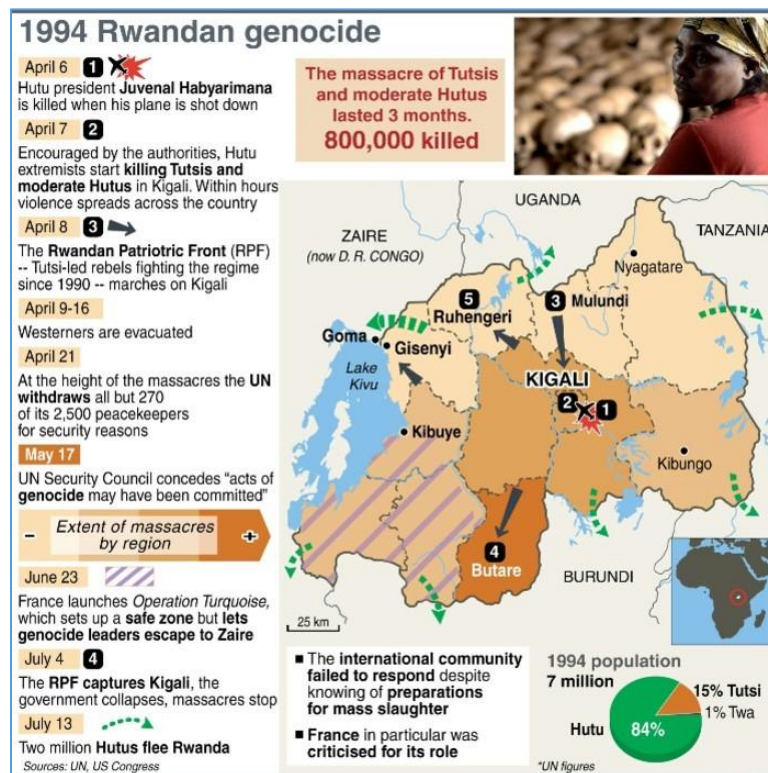
- ❖ The report's purpose is to provide estimates of the global and regional prevalence of infertility by analysing all relevant and representative studies from 1990 to 2021.
- ❖ About 17.5 per cent of the global adult population is affected by infertility.
- ❖ Approximately one in six people have experienced infertility at some stage in their lives, globally.

- ❖ The available data indicate that estimated lifetime prevalence of infertility is highest in the WHO Western Pacific Region (23.2%) and lowest in the WHO Eastern Mediterranean Region (10.7%).
- ❖ Estimated period prevalence of infertility is highest in the WHO African Region (16.4%) and lowest in the Eastern Mediterranean Region (10.0%).

## IMPORTANT DAYS

### International Day of Reflection on the 1994 Rwandan Genocide - April 07

- ❖ The day was established by the United Nations General Assembly in 2003.
- ❖ The date, 7 April, marks the start of the 1994 genocide by Hutus
- ❖ It lasted for the 100-day period to mid-July 1994.
- ❖ Around 800,000 Tutsis were slaughtered in Rwanda during these 100 days.



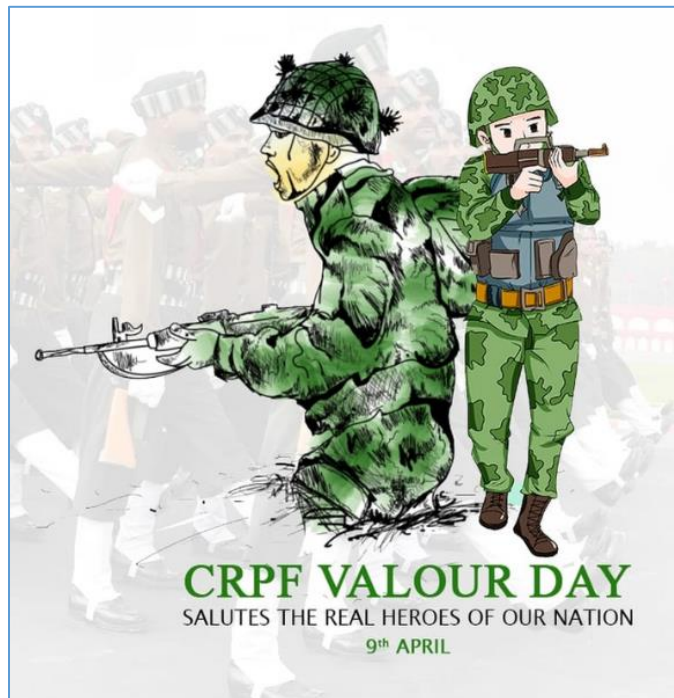
### International Romani Day - April 08

- ❖ It aims to celebrate Romani culture, history and language and raise awareness of the issues facing Romani people.

- ❖ It commemorates the first historical World Roma Congress assembled near London, England in Orpington in 1971.
- ❖ It was organised by the World Council of Churches and the Government of India.



### **CRPF valor day - April 09**



- ❖ This day pay tribute to the bravery and selfless sacrifice of the Central Reserve Police Force (CRPF) soldiers.
- ❖ It marks the anniversary of a remarkable battle that took place in 1965 between the CRPF and a Pakistan Brigade.
- ❖ A small group of the CRPF got into combat with enemies and killed around 34 Pakistani soldiers.

- ❖ CRPF came into existence as the Crown Representative's Police on 27 July 1939.
- ❖ After Indian Independence, it became the Central Reserve Police Force on the enactment of the CRPF Act on 28 December 1949.

### **National Safe motherhood Day - April 11**



- ❖ This day commemorates the birth anniversary of Kasturba Gandhi, the wife of Mohandas Karamchand Gandhi.
- ❖ It promotes maternal health and reduces maternal mortality rates in the country.
- ❖ The day was initiated by the White Ribbon Alliance India (WRAI).
- ❖ It was officially recognised by the Indian government in 2003.
- ❖ The theme of 2023 is "Motherhood is a blessing from God. "

### **International Day of Human Space flight - April 12**



- ❖ This day celebrates the contribution of space science and technology and ensuring the realisation of the conservation of outer space for peaceful purposes.





- ❖ On this day in 1961, the Russian cosmonaut became the first human to journey into outer space.
- ❖ Russian cosmonaut Yuri Gagarin became the first human in space flight to orbit the Earth.
- ❖ The United Nations recognized the importance of this milestone and, in 2011, declared this day.

