

May - 19

TNPSC BITS

- ❖ The founder and Chancellor of Vellore Institute of Technology (VIT), G. Viswanathan, was presented with a Lifetime Achievement Award for his contribution to international education.
 - The World Tamil Organization (UK) presented the award in the House of Commons of the British Parliament in London.
- ❖ IRCTC's, South Zone, Chennai, will operate a Bharat Gaurav Tourist Train which covering Shirdi Sai Baba Temple, Nashik, Pandharpur and Mantrayalam.
 - The tour named "Shirdi Sai Darshan."
- ❖ Karnataka Director General of Police (DGP) Praveen Sood was appointed the new Director of the Central Bureau of Investigation (CBI).
- ❖ The First ministerial meeting of the India-European Union Trade and Technology Council (TTC) took place in Brussels, Belgium.

TAMIL NADU

i-Tamil Nadu Technology (iTNT) hub



The infographic features the Tamil Nadu State Emblem and the Government of Tamil Nadu logo. It includes a portrait of the Chief Minister, M.K. Stalin, and text in Tamil and English. The text describes the inauguration of the iTNT hub, its location in Chennai, and the investment amount of ₹54.61 crore. It also mentions the total investment of ₹199.6 crore for the hub.

தமிழக படனெட் அறிவியல் 2022-2023

தமிழ்நாடு அரசு தகவல் தொழில் நுட்பவியல் துறை

■ செயற்கை நுண்ணறிவு, இயந்திர கற்றல் மற்றும் நம்பிக்கை இணையம் எனும் பிளாக்செமின் போன்ற நவீன, வளர்ந்து வரும் தொழில்நுட்பங்களின் முக்கியத்துவத்தை தமிழ்நாடு அரசு அறிந்திருக்கிறது.

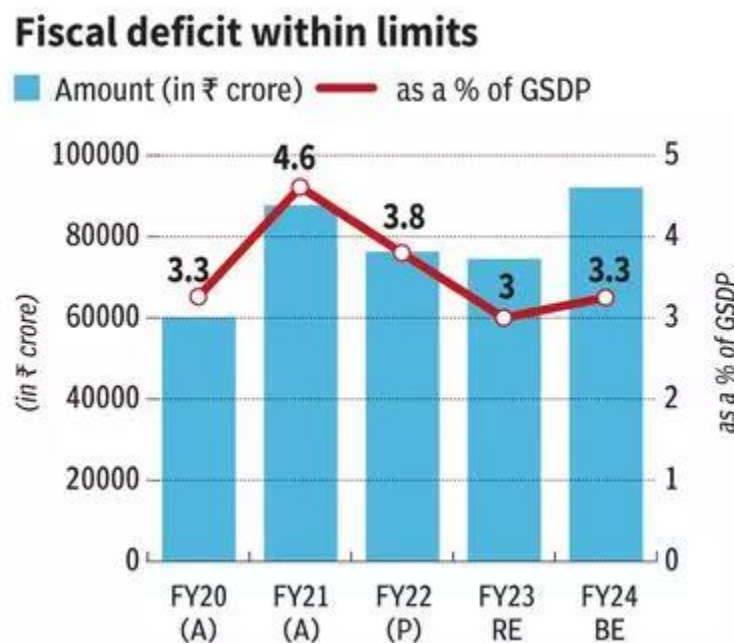
■ தமிழ்நாடு அரசு, i-Tamil Nadu Technology (iTNT) Hub எனும் தொழில்நுட்ப மையத்தை சென்னையில் ரூ.54.61 கோடி முதலீட்டில் உருவாக்கும். இந்த தொழில்நுட்பங்களை பயன் படுத்தி மாநிலத்தில் உள்ள சவால்கள் மற்றும் பிரச்சனைகளுக்கு தீர்வுக்கான நடவடிக்கைகளை இந்த தொழில்நுட்ப மையம் ஒருங்கிணைக்கும்.

■ இந்த ஆண்டின் நிதி நிலை அறிக்கையில், தகவல் தொழில்நுட்பவியல் துறைக்கு, 199.6 கோடி ரூபாய் வழங்கப்பட்டுள்ளது.

- ❖ Tamil Nadu Chief Minister virtually inaugurated the i-Tamil Nadu Technology (iTNT) hub.

- ❖ The iTNT hub would coordinate efforts to use artificial intelligence, machine learning, and blockchain technologies, among others, to solve complex challenges in the State.
- ❖ The hub has been established on the Anna University campus in Chennai at a cost of ₹54.61 crore.
- ❖ The Union government has contributed 50% of the funds.
- ❖ The T.N. government has spent 37%, and industries have contributed 13%.

T.N.'s fiscal deficit fiscal 2023



- ❖ Tamil Nadu's fiscal deficit stood at ₹72,418.99 crore in fiscal 2022-23.
- ❖ The fiscal deficit is the difference between total receipts and total expenditure.
- ❖ While presenting the Budget for 2023-24, the State government had revised its fiscal deficit estimates to ₹74,524.64 crore for 2022-23.
- ❖ The revenue deficit, which indicates that expenditure exceeds receipts, came in at ₹27,549.09 crore for 2022-23.
- ❖ The State's total receipts (which included revenue receipts and capital receipts) stood at ₹2,43,133.76 crore in 2022-23.
- ❖ Total expenditure (revenue and capital expenditure, including net loans and advances) was ₹3,15,552.75 crore for 2022-23.
- ❖ The total revenue receipts were ₹2,42,013.85 crore for 2022-23.

- ❖ It includes the State's Own Tax Revenue (SOTR), share of Union Taxes, Non-Tax Revenue and Grants-in-aid and contributions.
- ❖ The SOTR stood at ₹1,4,1196.22 crore for 2022-23.
- ❖ The SOTR accounts for over 70% of the State's total revenue.
- ❖ The State goods and services tax (GST), stamps and registration fees, value added taxes (VAT) on petroleum products and liquor, excise duty on liquor and land revenue are the key components of SOTR.
- ❖ Revenue expenditure includes expenditure on salaries to government employees, pensions and other retirement benefits, operations and maintenance expenditure, interest on outstanding loans and subsidies and grants, scholarships and contributions, including the devolution to local bodies.

NATIONAL

UID Number for all doctors

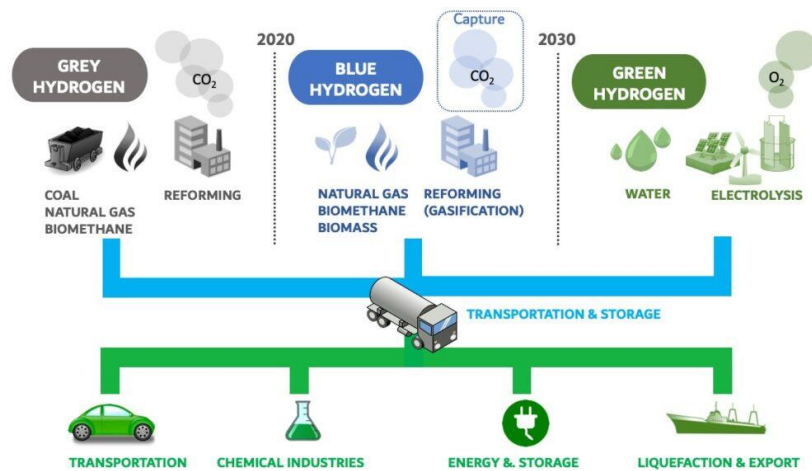


- ❖ The government has made the Unique Identification Number (UID) mandatory for all doctors across India.
- ❖ As per the new regulations, doctors will now need a unique ID to practice medicine in India.
- ❖ The UID will be generated centrally by the National Medical Commission (NMC) ethics board.

Green hydrogen bunkers by 2035

- ❖ India has set a deadline of 2035 to establish green hydrogen bunkering and refuelling facilities at major ports.

- ❖ One of the world's biggest emitters of greenhouse gases, India aims to cut emissions to net zero by 2070.
- ❖ Share of renewable energy at Ports should exceed 60% by the Year 2030 and 90% by year 2047.
- ❖ As a part of its commitment in COP 26 towards Climate Action, India has pledged to reduce the emission intensity per unit GDP by 45% by the year 2030 from the 2005 level.
- ❖ The country's maritime sector plays a crucial role in overall trade and growth with a 95% share in trade volume and a 65% share in trade value.



INTERNATIONAL

Cyclone Mocha

CYCLONE MOCHA

The Cyclone Mocha (Mokha) - a name suggested by **Yemen** - was named after the Red Sea port city which is known to have introduced **coffee** to the world over 500 years ago

HOW TROPICAL STORMS ARE FORMED

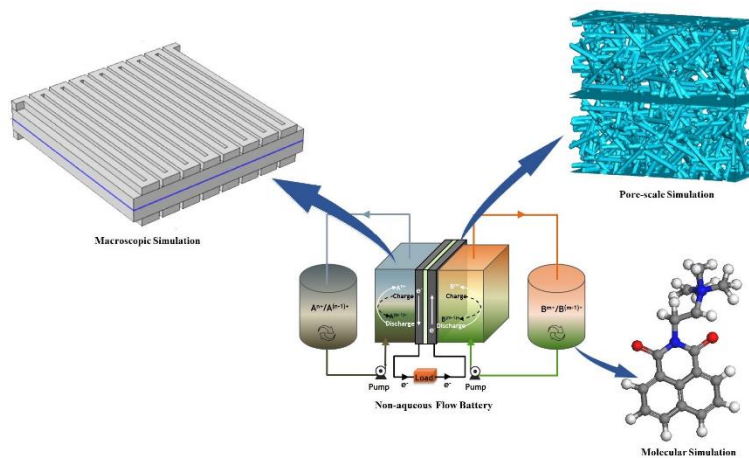
- 1** Water evaporates from the ocean surface and comes into contact with a **mass of cold air**, forming clouds
- 2** A **column of low pressure** develops at the center. **Winds form** around the column
- 3** As pressure in the central column (the eye) weakens, the **speed of the wind around it increases**

- ❖ Cyclone Mocha made landfall between Cox's Bazar in Bangladesh and Myanmar's Sittwe.

- ❖ Yemen suggested the name 'Mocha', which is supposed to be pronounced as Mokha.
- ❖ The cyclone has been named after a Red Sea port city known for its coffee production.
- ❖ The city also gave its name to the popular beverage, café Mocha.
- ❖ Cyclone Mocha is the most powerful storm to hit Bangladesh since Cyclone Sidr.
- ❖ Sidr hit Bangladesh's southern coast in November 2007, killing more than 3,000 people and causing billions of dollars in damage.
- ❖ Cyclone Nargis devastated Myanmar's Irrawaddy Delta in 2008, killing at least 138,000 people.

SCIENCE AND TECHNOLOGY

New flow battery technology

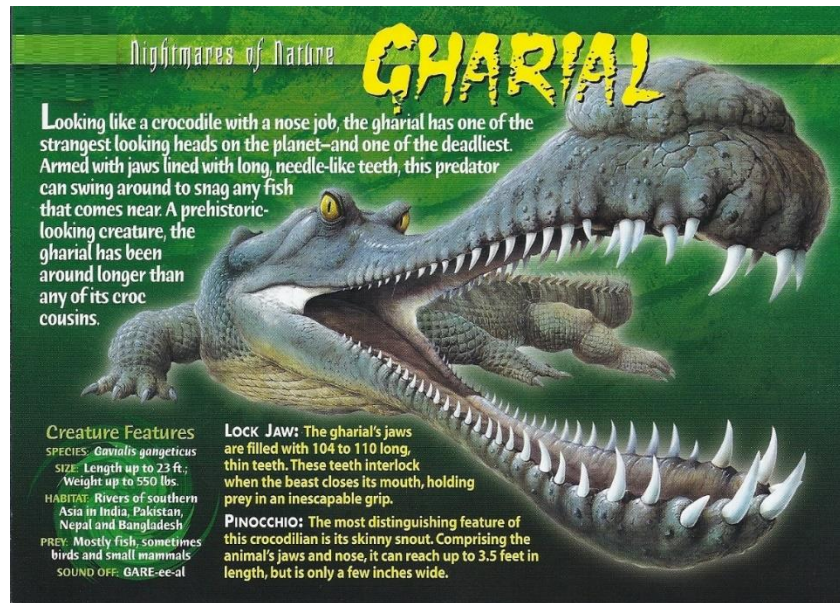


- ❖ Indian Institute of Technology of Madras have developed a 'non-aqueous all-organic redox flow battery' (NORFB).
- ❖ They have developed a new type of electrolyte using 'pyrylium salts', which are a class of organic chemicals.
- ❖ With suitable structural modifications these chemicals allow high-voltage operation, namely they can store more energy.
- ❖ The electrolyte is designed to carry more current density as well as voltage.
- ❖ Conventional flow batteries feature aqueous (water-based) electrolytes like hydrochloric acid, sulphuric acid, and alkali metal hydroxides.
- ❖ Water in the electrolyte undergoes electrolysis, reducing the operating voltage limit and energy density.

- ❖ The presence of water leads to corrosion of battery components, diminishing their lifespan and performance.

ENVIRONMENT

Gharial in Pakistan



- ❖ A gharial (*Gavialis gangeticus*) has been seen in Pakistan's Punjab province for the first time after three decades.
- ❖ It could have been from a population reintroduced on this side of the Radcliffe Line in 2017.
- ❖ India has reintroduced the gharial in the Harike wetland which is 50 km from the border
- ❖ Between 2017 and 2021, some 94 gharials were released into the Beas River in the Amritsar, Tarn Taran Sahib and Hoshiarpur districts under three phases of the Punjab (India) government's programme.
- ❖ The animals were brought mostly from the Chambal basin in Madhya Pradesh.

IMPORTANT DAYS

UN Global Road Safety Week – May 15/21

- ❖ UN Global Road Safety Week are held to raise attention to and action on a specific road safety challenge.

- ❖ They contribute to advocacy around the Global Plan for the Decade of Action for Road Safety 2021-2030.
- ❖ This guiding framework reflects an ambitious target to reduce road traffic deaths and injuries by 50% by 2030.
- ❖ Road accidents led to 1.3 million deaths and as many as 50 million injuries on the world's roads each year.



Mother's Day - May 15



- ❖ It is celebrated on the second Sunday of May each year.
- ❖ This day honours mothers and motherhood, celebrates the importance of maternal bonds.
- ❖ Also, it calls attention to issues affecting mothers and families.
- ❖ This day was initiated by Anna Jarvis, who wanted to honor her mother.



- ❖ In 1914, 28th President of the United States of America, Woodrow Wilson signed a proclamation designating the second Sunday in May as Mother's Day.

International Day of Light - May 16

- ❖ The day commemorates the successful operation of the first laser by Theodore Maiman in 1960.
- ❖ It was established by UNESCO to celebrate the significance of light in various aspects of our lives, including science, culture, and sustainable development.
- ❖ UNESCO's International Basic Science Program coordinates the day's celebration on behalf of the United Nations.



International Day of Living Together in Peace - May 16



- ❖ This day aims to highlight the importance of fostering peaceful coexistence, mutual respect, and harmony among people from diverse backgrounds.
- ❖ In 1997, the General Assembly proclaimed the year 2000 as the "International Year for a Culture of Peace".
- ❖ The next year, it declared that the "International Decade for a Culture of Peace and Non-Violence for Children of the World" will be observed from 2001-10.



- ❖ The adoption of the Declaration and Programme of Action on a Culture of Peace in 1999 further emphasised the need for sustained peace and non-violence.

