

November - 05

## TNPSC BITS

- ❖ The Tamil Nadu government has passed an order to set up a fact-check unit to counter fake news, communal misinformation and hate speech in news related to the state government across all media platforms.
- ❖ The International Solar Alliance (ISA) announced that the Global Solar Facility (GSF), a payment guarantee fund formed by ISA is set to receive a capital contribution of \$35 million.
- ❖ The United Kingdom hosted a two-day artificial intelligence (AI) summit by bringing together government officials and companies from across the globe, including the U.S. and China.
- ❖ Nokia has signed a deal with Tata Play Fibre to launch the first Wi-Fi 6 ready broadband network in India.

## TAMIL NADU

### Tamil Nadu's Own Tax Revenue 2023-24

Budget at a glance			
	(in ₹ crore)		
	2021-22 accounts	2022-23 Revised estimate	2023-24 Budget estimate
Total revenue receipts	2,07,492	2,45,660	2,70,515
Total revenue expenditure	2,54,030	2,76,136	3,08,055
Revenue deficit	-46,538	-30,476	-37,540
Capital expenditure	37,011	38,347	44,366
Fiscal deficit as a % of GSDP	-3.38%	-3.00%	-3.25%

- ❖ Tamil Nadu's Own Tax Revenue grew 4.92% to ₹72,017.8 crore in the first half of 2023-24, from ₹68,637.7 crore in the comparable period last year.
- ❖ The State's Own Tax Revenue (SOTR) accounts for 70% of Tamil Nadu's total revenue.
- ❖ The State Goods and Services Tax (SGST) collection grew about 12.2% to ₹29,481.97 crore in the April-September, 2023 period.
- ❖ This was ₹26,285.31 crore in the same period last year.
- ❖ Revenue from Stamps and Registration Fees increased to ₹9,241.14 crore in the first half of 2023-24 from ₹8,662.15 crore in the comparable period of last year.

- ❖ Tamil Nadu's revenue deficit was ₹21,635.55 crore in the April-September, 2023 period.
- ❖ Fiscal deficit, which is the difference between total receipts and total disbursements, stood at ₹45,168.86 crore in the first half of 2023-24.

## NATIONAL

### Mera Yuva Bharat Platform

- ❖ The Union Cabinet gave its approval for the establishment of an autonomous body known as "Mera Yuva Bharat (MY Bharat)."
- ❖ It envisions itself as a pivotal, technology-driven facilitator for youth development and youth-led progress.
- ❖ It aims to provide equitable opportunities for young individuals to realize their aspirations and contribute to the creation of a "Viksit Bharat" (developed India) across various aspects of government initiatives.



**MERA YUVA BHARAT**

**Impact:**

- Leadership Development in the Youth
- Better alignment between youth aspirations and community needs
- Enhanced efficiency through Convergence of existing programmes
- Act as a one stop shop for young people and Ministries
- Create a centralized youth data base
- Ensuring accessibility by creating a phygital ecosystem

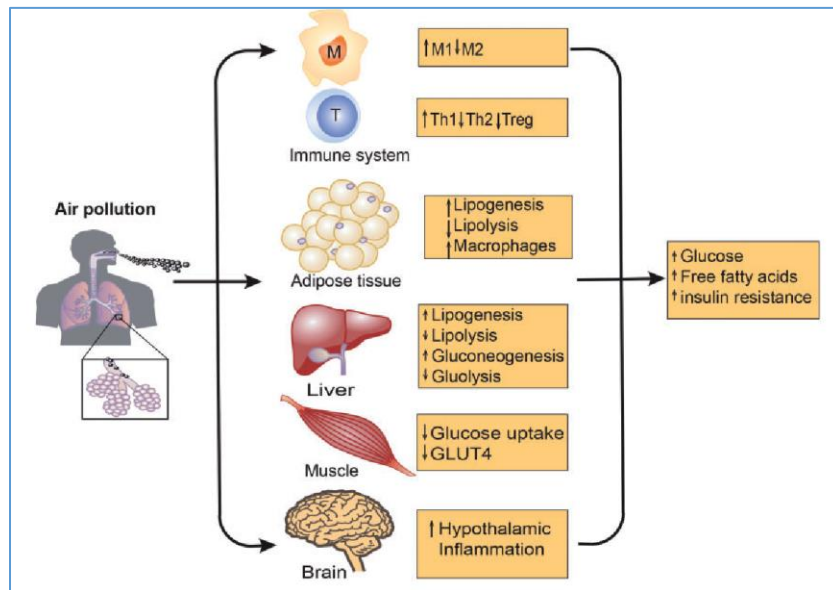
### One Nation One Registration Platform

- ❖ The National Medical Commission (NMC) is all set to launch its "one nation, one registration platform" for doctors across the country.
- ❖ It aims to eliminate duplication, red tape and allow the public to access information on any physician working in India.

- ❖ Each doctor will be allotted a unique identification number and then can also apply for their licence to work in any State depending on where they are.



### Risk of type 2 diabetes and air pollution

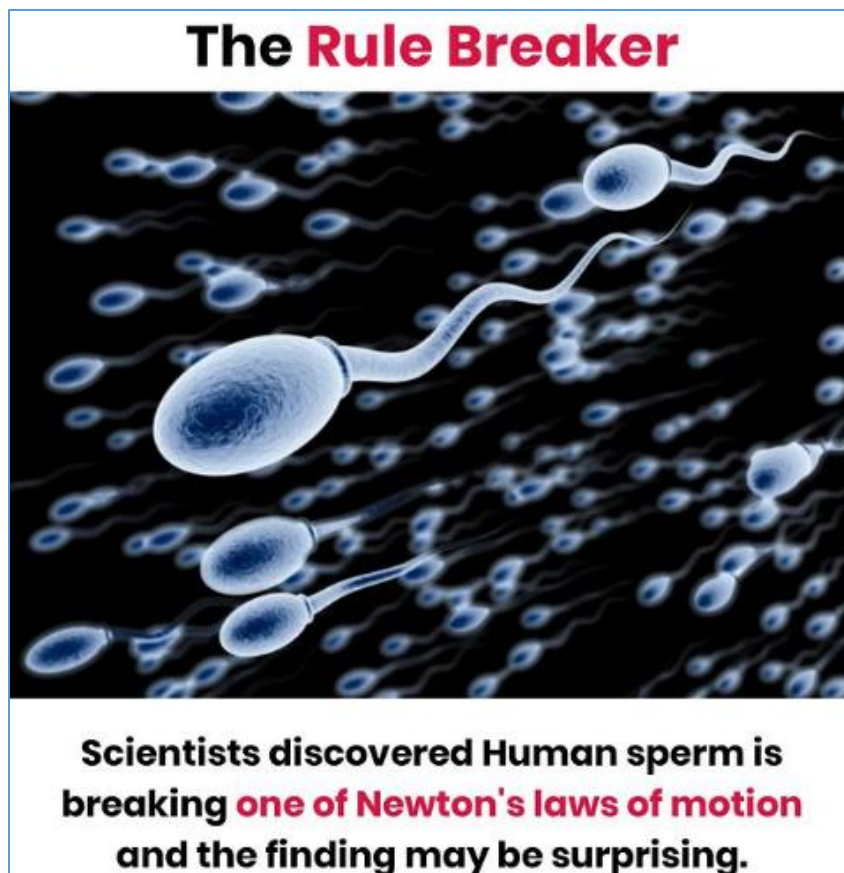


- ❖ Two studies published in international journals have reported a link between air pollution levels and the incidence of type 2 diabetes in Chennai and Delhi.
- ❖ Indian cities have consistently dominated the tops of lists of places with the worst air for residents.
- ❖ Air quality of cities frequently several times higher than the limits set by the World Health Organisation.
- ❖ For every 10 µg/m<sup>3</sup> increase a month in PM<sub>2.5</sub> levels, fasting plasma glucose (FPG) increased by 0.21-0.58 mg/dL (milligrams per decilitre) and glycosylated haemoglobin (HbA<sub>1c</sub>) by 0.012-0.024 in Delhi.

- ❖ FPG increased  $-0.36-1.39$  mg/dL and HbA1c  $0.01-0.06$  in Chennai.
- ❖ Over six months, a  $10 \mu\text{g}/\text{m}^3$  change in PM2.5 levels resulted in a rough doubling of both ranges in Delhi.
- ❖ But it couldn't be associated with a statistically significant result in Chennai.
- ❖ In annual average "PM2.5" could be related to a 9-36% higher risk of developing type 2 diabetes.

## SCIENCE AND TECHNOLOGY

### Breaking Newton's laws of motion

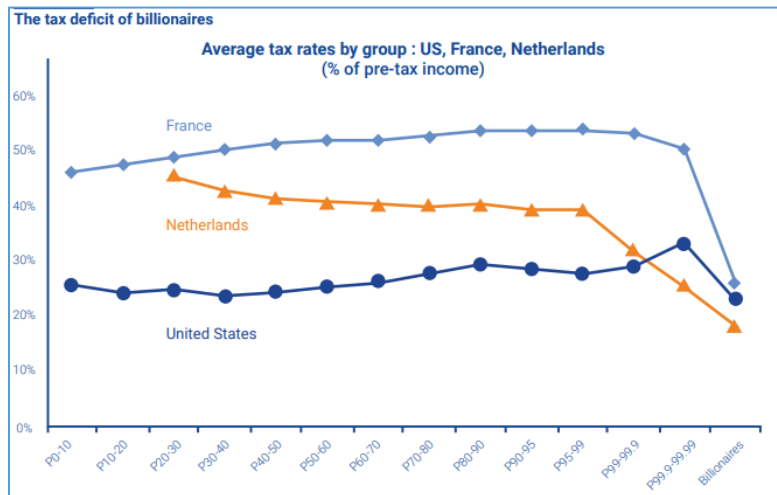


- ❖ Newton's third law of motion is one of the most well-known laws of physics, which states, "For every action, there is an equal and opposite reaction."
- ❖ But the biological swimmers such as sperm, this may not be the case.
- ❖ The human sperm and Chlamydomonas algae can swim by deforming their bodies in a way that does not elicit a response from their surroundings.
- ❖ Both sperm cells and Chlamydomonas algae employ hair-like appendages known as flagella to facilitate movement.

- ❖ They go against Newton's third law because they don't trigger an equal and opposite reaction from their environment.

## REPORTS AND INDICES

### EU Global Tax Evasion Report 2024



- ❖ The European Union Tax Observatory released the 'Global Tax Evasion Report 2024'.
- ❖ It has called for a global minimum tax on billionaires equal to 2% of their wealth.
- ❖ This would both address evasion and generate nearly \$250 billion from less than 3,000 individuals.
- ❖ In the United States, billionaires' personal tax is estimated to be close to 0.5 percent.
- ❖ It can even be as low as zero in high-tax countries such as France.
- ❖ The wealth of billionaires has grown at 7% a year annually on average since 1995.

## PERSONALITIES, AWARDS, AND EVENTS

### Wildlife Photographer of The Year 2023

- ❖ 6 Photographers from India win Wildlife Photography Awards.
- ❖ Sriram Murali has received the Wildlife Photographer of the Year award in the 'Behaviour: Invertebrates' category for his photograph of the Anamalai Tiger Reserve Forest in Tamil Nadu.
- ❖ Vishnu Gopal won the Animal Portraits Category prize.



- ❖ Other winners were Nejob Ahmed, whose image featured a distressed tiger among anxious people on the fringes of Assam's Orang National Park.
- ❖ Raj Mohan's photograph of the Pallikaranai marshes, a Ramsar site, enveloped in flames from burning rubbish.
- ❖ Vihaan Talya Vikas, 10-year-old from Bengaluru, is clinching the top prize in his category.
- ❖ This prize is often referred to as the 'Oscars of Photography'.
- ❖ It serves as a global platform for showcasing the world's most exceptional wildlife photography.



### **Rohini Nayyar Prize**



- ❖ Social worker Deenanath Rajput was awarded the Rohini Nayyar Prize for Outstanding Contribution to Rural Development.

- ❖ It is recognising his efforts in changing the lives of over 6,000 tribal women in Chhattisgarh by establishing a farmers producers organisation (FPO).
- ❖ This is the second edition of the Rohini Nayyar Prize.
- ❖ It was instituted in the memory of the eponymous economist and administrator who passed away in 2021.

## IMPORTANT DAYS

### **International day against violence and bullying at school including cyberbullying 2023 - November 02**

- ❖ In 2019, 193 UNESCO Member States declared the first Thursday of November as this International Day observance.
- ❖ This day was recognizing that bullying in schools and cyberbullying is an infringement of children's and adolescents' rights to education and to health and well-being.
- ❖ Theme for 20203 is - No place for fear: Ending school violence for better mental health and learning.

