

UPSC Daily Current Affairs| One Liners 03-01-2025

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Social Issues

Mission Suraksha initiative

- It is also called as *Mission COVID Suraksha*, the Indian COVID-19 Vaccine Development Mission.
- **Part of** - 3rd stimulus package, Atmanirbhar Bharat 3.0
- **Objective** - For *promoting research and development* of Indian COVID-19 vaccines.

International Relations and Issues

RCIC scheme

- **RCIC** - Rural Community Immigration Class
- **Launched by** - *Canada*
- **Aim** - To provide a pathway for foreign nationals, including students, to *apply for PR* if they commit to living and working in designated rural communities.
- **Indian students in Canada** - They constitute the largest share of international students in Canada, accounting for *nearly 40%*.

Economy

India in Biopharma Sector

- It currently accounts for *60% of global vaccine production*.
- It is home to the 2nd largest number of USFDA-approved manufacturing plants outside the United States.

Unified Payments Interface (UPI)

- **UPI** - A digital payment system that allows users to make payments and transfers using a mobile app.
- **Launched in** - 2016.
- **Developed by** - National Payments Corporation of India (NPCI).
- **Regulated by** - Reserve Bank of India (RBI).
- **Function** - It allows users to send and receive money, pay merchants, and make peer-to-peer requests.
- **Transaction limit** - *Rs.1 lakh per transaction and 20 transactions per day*, but these limits may vary by bank and app.
- **Transaction charges** - They are usually free, but some banks may charge for specific services.

UPI Ecosystem in India

- It now accounting for nearly 8 in every 10 digital transactions.
- **UPI penetration** - It remains at *30% of the population*.
- **Duopoly** - Extreme market concentration of 2 3rd Party App Providers (TPAPs).
- *Phone Pe and Google Pay* together control over 85% of the total market share.

Environment

Smart Compost Monitoring Solution

- It is a prototype for an intelligent IoT system that remotely monitors and manages compost which can be used as fertilizer.
- **Developed by** - International Institute of Information Technology - Bangalore (IIITB)
- **Working** - It includes a sensor hub associated with each bin to monitor the compost's pH, temperature, humidity, and CO2 levels.
- It generates alerts using a mobile phone.

Science

• BIO-E3 Policy

- **Bio-E3** - Biotechnology for Economy, Employment, and Environment
- **Aim** - To shape the country's economy, employment landscape, and environmental sustainability in the years to come.

• Nafithromycin

- It is *India's 1st Indigenous Antibiotic* through public-private collaboration.
- **Launched in** - 2024
- **Aim** - To treat both typical and atypical drug-resistant bacteria
- **Under** - Biotechnology Industry Research Assistance Council (BIRAC) Biotech Industry Program.
- **Targets** - Community-Acquired Bacterial Pneumonia (CABP) caused by drug-resistant bacteria.
- **Advantages** - *10 times more effective than azithromycin* and offers a 3-day treatment regimen.

• Successful Gene Therapy Trial for Haemophilia

- **Conducted at** - Christian Medical college, Vellore
- **Support of** - Department of Biotechnology
- **Haemophilia** - A rare *inherited blood disorder* in which the blood doesn't clot in the typical way because it doesn't have enough blood-clotting proteins (clotting factors).

• Nano-formulation of Melatonin for Parkinson's disease

- **Melatonin** - A neurohormone secreted *from the pineal gland*, an endocrine gland present in the brain.
- It *regulates the sleep-wake cycle* and is used to treat insomnia could be a potential inducer of mitophagy to mitigate PD.
- **Parkinson's disease (PD)** - A neurological disorders caused by the *death of dopamine-secreting neurons* in the brain due to aggregation of synuclein protein inside it.

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