



08 August 2024

## National and International News

Sucralose	<p><b>Why in the news?</b></p> <ul style="list-style-type: none"><li>• A recent Indian study found that replacing sucrose (table sugar) with sucralose (an artificial sweetener) had no adverse effects on glucose or HbA1c levels and led to a slight improvement in body mass index (BMI).</li></ul> <p><b>About Sucralose:</b></p> <ul style="list-style-type: none"><li>• Sucralose is a no-calorie sweetener used to reduce added sugar intake while still enjoying sweetness.</li><li>• Sugar substitutes include low-calorie (e.g., aspartame) and no-calorie sweeteners (e.g., sucralose, monk fruit, stevia).</li><li>• Sucralose is about 600 times sweeter than sugar.</li><li>• It can be used as an ingredient in any food or beverage.</li><li>• Production of Sucralose:<ul style="list-style-type: none"><li>○ Sucralose is made from regular table sugar (sucrose).</li><li>○ Digestive Resistance: Sucralose's structure prevents digestive enzymes from breaking it down, contributing to its safety.</li></ul></li><li>• Excretion:<ul style="list-style-type: none"><li>○ Approximately 85% of consumed sucralose is not absorbed and is excreted unchanged in the feces.</li><li>○ About 15% is absorbed but is not metabolized for energy, hence sucralose provides no calories.</li></ul></li></ul>
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	<ul style="list-style-type: none"><li>• <b>Elimination:</b> All absorbed sucralose is rapidly excreted in the urine.</li></ul>
<b>QCI Surajya Recognition &amp; Ranking Framework</b>	<p><b>Why in the news?</b></p> <ul style="list-style-type: none"><li>• The <b>Quality Council of India</b> recently introduced the <b>QCI Surajya Recognition &amp; Ranking Framework</b> to drive excellence in key sectors.</li></ul> <p><b>About QCI Surajya Recognition &amp; Ranking Framework:</b></p> <ul style="list-style-type: none"><li>• <b>Objective:</b> Drive excellence among states to improve the quality of life of citizens and create a developed India by recognizing and rewarding states and organizations that excel in quality and innovation.</li><li>• <b>Framework Categories:</b><ul style="list-style-type: none"><li>○ Shiksha (Education)</li><li>○ Swasthya (Health)</li><li>○ Samridhi (Prosperity)</li><li>○ Sushasan (Governance)</li></ul></li><li>• <b>Surajya Recognition:</b> Acknowledges outstanding performance and commitment to quality by states and organizations in the four vital areas.</li></ul>



## e-rupee



e-RUPI is a **cashless and contactless** instrument for **digital payment** developed by **National Payments Corporation of India**

Connects sponsors of the services with beneficiaries & service providers in a **digital manner without any physical interface**

Assures timely payment **without involvement of any intermediary.**

It can also be used for **delivering services** meant for **providing drugs & nutritional support** under **Mother & Child welfare schemes, TB eradication programmes, etc**

## Why in the news?

- Fintech companies aim to participate in the Indian central bank's digital currency project, enabling users to transact in e-rupee through the Unified Payments Interface (UPI).

## About e-rupee:

- **Issuance and Launch:**
  - Digital currency issued by the **Reserve Bank of India (RBI)**.
  - Launched on a **pilot basis** in **December 2022**.
- **Availability and Usage:**
  - Offered by select public and private banks in major cities.
  - Usable for both **person-to-person** and **person-to-merchant transactions**.
- **Purpose:**
  - Provides an additional option for using money.
  - **Entirely in electronic form**, does not leave a computer network.
- **Legal Tender:**
  - **Similar to banknotes** issued by the RBI.
  - **Can only be transacted online.**
- **Interest and Conversion:**
  - Does not attract interest payments from the central bank.
  - **Deposits in banks can be converted into digital rupees and vice versa.**

**Earth Observation Satellite-8****Why in the news?**

- **ISRO's Earth Observation Satellite-8 (EOS-8)** is set to launch on August 15 from Sriharikota, Andhra Pradesh, via the **Small Satellite Launch Vehicle (SSLV)-D3**.

**About Earth Observation Satellite-8:**

- **Launch Vehicle:** Small Satellite Launch Vehicle (SSLV)-D3
- **Primary Objectives:**
  - Design and develop a **microsatellite**.
  - Create **payload instruments compatible with the microsatellite bus**.
  - Incorporate **new technologies for future operational satellites**.
- **Applications:**
  - Satellite-based surveillance.
  - Disaster monitoring.
  - Environmental monitoring.
  - Fire detection.
  - Volcanic activity observation.
  - Industrial and power plant disaster monitoring.
- **Mission Life:** One year.



## Asset Management Companies (AMCs)

## Why in the news?

- **SEBI** stated in a recent circular that **CEOs, Managing Directors (MDs), or equivalent officials of Asset Management Companies (AMCs)** will be held **accountable for implementing mechanisms to prevent potential market abuse.**

## About AMCs:

- **Definition:** A **financial institution that pools funds from multiple investors to invest in various financial instruments** (stocks, bonds, real estate) to generate returns in exchange for a fee.
- **Types of AMCs:**
  - Hedge Funds
  - Mutual Funds
  - Index Funds
  - Exchange-Traded Funds (ETFs)
  - Private Equity Funds
  - Other Funds
- **Role and Functions of AMCs:**
  - **Investment Decisions:** Make decisions on investors' behalf, manage assets in portfolios.
  - **Portfolio Management:** Choose suitable investments, help investors grow their money.
  - **Professional Fund Managers:** Appoint qualified fund managers with investment expertise.
  - **Investment Strategies:** Employ strategies and risk management techniques to manage portfolios and protect assets.
  - **Support System:** Have research analysts to assist fund managers.
- **Regulation:** Securities and Exchange Board of India (SEBI)



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**MPSC GAZETTED  
CIVIL SERVICES 2024**  
संयुक्त पूर्व परीक्षा  
(पेपर 1 आणि पेपर 2)  
20 Total Tests

Test Series

**MPSC GROUP  
B & C 2024**  
संयुक्त पूर्व परीक्षा  
(अराजपत्रित)  
27 Total Tests

Test Series

**MAHARASHTRA  
KA MAHAPACK**  
MPSC Civil Services, MPSC  
Non Gazetted Combined, &  
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