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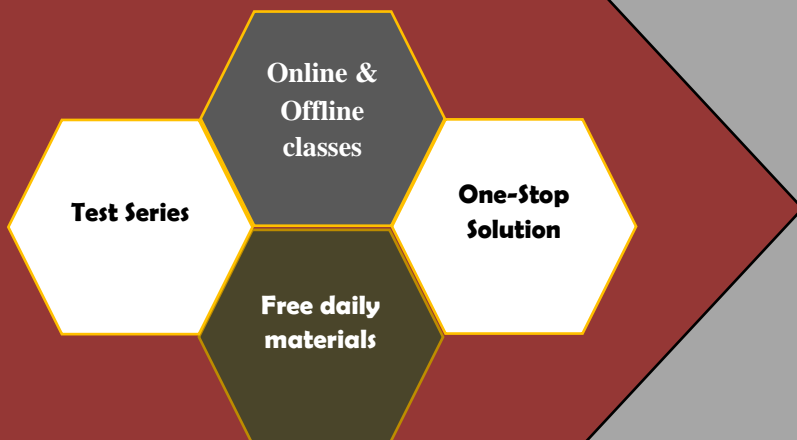
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AmbiTAG

Notes for civil services preparation



UPSC

General Studies

AmbiTAG



Why in News

Recently, Indian Institute of Technology (IIT) Ropar, Punjab has developed a **first- of-its-kind IoT (Internet of Things) device – AmbiTag** that records **real-time ambient temperature** during the **transportation of perishable products, vaccines** and even **body organs and blood**.

The device has been developed under **Technology Innovation Hub – AWaDH (Agriculture and Water Technology Development Hub)** and it's Startup scratch nest.

Agriculture and Water Technology Development Hub

AWaDH is a research center at **IIT Ropar** established with support from the **Department of Science and Technology (DST)** and **Science and Engineering Research Board (SERB)** to carry out extensive research in the **field of agriculture and**

Key Points

About AmbiTAG:

- o This is shaped as a USB (Universal Serial Bus) device.
- It is **India's first indigenous** temperature data logger for **cold chain management**.

- It continuously records the temperature of its immediate surroundings **from -40 to +80 degrees in any time zone for a full 90 days on a single charge.**
 - Most of the similar devices available in the international market record data only for a duration of 30- 60 days.
- It **generates an alert** when the temperature goes **beyond a pre-set** limit.
- The recorded data can be retrieved by **connecting the USB** with any computer.

Significance:

- Besides **perishable items** including **vegetables, meat and dairy products**, it can also monitor the temperature of **animal semen** during transit.
- The device will be made available to all companies involved in **Covid- 19** vaccine transportation from production facilities to the last mile vaccination centers in the country.
- It is a push towards **Atmanirbhar Bharat** as such devices are being imported by India in a massive quantity from other countries such as **Singapore, Hong Kong, Ireland, and china.**

