UPSC Daily Current Affairs| One Liners 20-08-2025

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Agriculture

SURAKSHIT

• **Developed by –** National Institute of Food Technology Entrepreneurship and Management (NIFTEM).
• **Aim –** To transform agri-food processing waste into fully biodegradable, bio-based packaging material, offering a sustainable alternative to conventional plastics.
• **Significance –** it will enhance a *waste-to-resource approach* and convert agro-waste into a useful product while promoting a circular economy.

National Institute of Food Technology Entrepreneurship and Management (NIFTEM)

• **Established in –** 2012, by *Ministry of Food Processing Industries (MoFPI).*
• **Aim -** To provide a conducive ecosystem for education, research, industrial promotion & to support entrepreneurship in the food processing sector.

Security

Transitioning to Quantum Cyber Readiness

CERT-In and SISA launch 'Transitioning to Quantum Cyber Readiness' to guide India's shift towards a Quantum-Safe future through encryption innovation.
• It is a process of preparing system and infrastructure to withstand the disruptive potential threat of quantum technologies, which could break current encryption methods.
• **Launched by –** Ministry of Electronics & Information Technology.
• **Aim –** To adopt quantum-resistant cryptographic algorithms and develop a "crypto-agile" approach to cybersecurity.

CERT-In

• It is the national agency for responding to cyber security incidents.
• **Legal basis –** Information Technology Amendment Act 2000.
• **Objectives –** Collection, analysis and dissemination of information on cyber incidents.
• To coordinate, forecast, alert and take emergency measures for cyber security incidents.
• Issue guidelines, advisories, vulnerability notes and whitepapers relating to information security practices, procedures, prevention, response and reporting of cyber incidents.

SISA

• It is a leader in cybersecurity solutions for the digital payment industry and global payment forensic investigator of the Payment Card Industry (PCI) Security Standards Council.
• **Aim –** To leverage forensics insights into preventive, detective, and corrective security solutions.
• **Coverage –** To protect 1,000+ organizations across 40+ countries from evolving cyberthreats.

PCI Security Standards Council (PCI SSC)

• It is a global forum for the development, enhancement, storage, dissemination and implementation of security standards for account data protection.
• **Aim –** To enhance global payment account data security by developing standards.
• **4 strategic framework**
- Increase industry participation and knowledge
- Evolve security standards and validation programs
- Secure emerging payment channels
- Increase standards alignment and consistency

Science

Information, Education and Communication (IEC) Scheme of Ayush

• It is a *Central Sector Scheme.*
• **Launched in –** 9th, 10th, 1 1th & 12th five-year plan and updated in 2014 by Ministry of Ayush.
• **Umbrella scheme -** National AYUSH Mission (NAM).
• **Objectives –** To disseminate proven results of R&D work.
• To create doorsteps awareness through the production of audio-visual educational materials.
• To provide a forum for horizontal and vertical interaction among stakeholders.

Promotion of International Co-operation in Ayush (IC Scheme)

• **Period –** FY 2021-22 to FY 2025-26.
• **Umbrella scheme –** National AYUSH Mission (NAM).
• **Objectives –** To create awareness about Ayush systems of medicine in international arena.

6 Components of IC Scheme

- International exchange of experts & officers.
- Incentive to Ayush entrepreneurs and institutions.
- Support for international market development.
- Translation and publication of Ayush literature.
- Establishment of Ayush information cells & health institutions.
- International fellowship/scholarship programme.

Visiting Advanced Joint Research (VAJRA) Faculty Scheme

• **Launched in –** 2017, by Department of Science and Technology.
• **Aim –** To enable *NRIs and overseas scientific* community to participate and *contribute to research and development* in India.
• **Implemented by –** Science and Engineering Research Board (SERB).

Ground-penetrating radar (GPR)

• **GPR –** It is a shallow, high-resolution geophysical method that uses *high-frequency, pulsed, electromagnetic waves* to image the subsurface.
• **Usage –** Mapping bedrock configuration and identifying karst features, voids, burrows and lava tubes etc.
• For search and rescue operations, detecting voids & buried objects, and assessing structural damage.
• To helps to understand the earthquake's impact on the subsurface & map fractures, changes of rock type, and rock fabrics.



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IAS PARLIAMENT
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