





Daily Current Affairs Encyclopedia



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National and International News

SPICED scheme	 Why in the news? The Spices Board of India launched the SPICED scheme to enhance spice exports, improve cardamom productivity, and upgrade post-harvest spice quality for exports.
	 About SPICED scheme : Scheme Name: "Sustainability in Spice Sector through Progressive, Innovative, and Collaborative Interventions for Export Development" (SPICED). Duration and Funding: The scheme will be implemented till FY 2025-26, with an approved outlay of ₹422.30 crore during the 15th Finance Commission cycle. Objectives: Value Addition and Innovation: Facilitate value-addition and drive innovation in the spice sector. Sustainability: Promote sustainability in the spice sector. Key Components: Mission Value Addition Mission Clean and Safe Spices Promotion of GI-tagged spices Support for Entrepreneurship through Spice Incubation Centres









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Quantum Nonlocality	 Why in the news? Scientists have shown that it is not possible to establish a universal standard for measuring and quantifying non-local quantum correlations. About Quantum Nonlocality: Classical Physics and Locality: Classical physics assumes the principle of locality, where objects are influenced only by their immediate surroundings. Quantum Mechanics and Nonlocality: Quantum mechanics introduces the principle of nonlocality, where objects appear to instantaneously know about each other's state, regardless of the distance between them. Contradiction with Speed of Light: Nonlocality challenges Einstein's principle that nothing can travel faster than the speed of light, suggesting that instantaneous action or information transfer might be possible in the quantum world. Entanglement: Nonlocality arises due to quantum entanglement, where particles that interact become permanently correlated and lose their individuality, behaving as a single entity. Universal Connection: Nonlocality implies that different parts of the universe may be connected in an intimate and immediate way, contrary to the principle of local action.
National Glacial Lake Outburst Floods Risk Mitigation Programme	 Why in the news? NDMA to monitor 189 high-risk glacial lakes to prevent disasters.
	 About National Glacial Lake Outburst Floods Risk Mitigation Programme: Aim: to address the risks posed by glacial lake outburst floods. Implementation: The program is being implemented by the National Disaster Management Authority (NDMA) in four states: Himachal Pradesh, Uttarakhand, Sikkim, and Arunachal Pradesh. High-Risk Lakes: The NDMA has identified 189 high-risk glacial lakes for monitoring and mitigation measures.











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	 Mitigation Measures: The program includes detailed technical hazard assessments, installation of automated weather and water level monitoring stations (AWWS), and early warning systems (EWS) at the lakes and in downstream areas. Lake-lowering measures are also being attempted to reduce the risk of GLOF.
Drug Delivery with Nanotechnology	 Why in the news? Drug delivery method can improve fungal infection treatment.
	 About Drug Delivery with Nanotechnology: Nikkomycin-loaded Nanoparticles: Scientists have utilized Nikkomycin, a chitin synthesis inhibitor produced by Streptomyces bacteria, for targeting fungal infections. Nikkomycin is loaded onto polymeric nanoparticles to specifically target fungal cell walls, which contain chitin—a component absent in human cells. The nanoparticle-based drug delivery system disrupts fungal growth without causing cytotoxic or hemolytic effects, making it a safer treatment option. Potential Applications: Particularly beneficial for patients with asthma, cystic fibrosis, HIV, cancer, or those on long-term corticosteroid therapy, who are at higher risk of fungal infections.
	 Do you know? About Nanotechnology: Nanotechnology involves manipulating atoms and molecules at the nanoscale (1 to 100 nanometers) to create structures with unique properties. Nanoparticles are ultra-small particles with a high surface area-to-volume ratio, leading to unique physical and chemical characteristics.











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World's Second-Largest Diamond	Why in the news?
	A 2,492-carat diamond, the second-largest ever
	discovered, was recently unearthed in Botswana.
	About World's Second-Largest Diamond:
	Newly Discovered Diamond:
	• The newly discovered diamond is second to the
	3,106-carat Cullinan Diamond, found in South
	Africa over a century ago.
	 Botswana's diamond industry constitutes 30% of
	its GDP and 80% of its exports.
	 Advanced X-ray transmission technology was
	used for recovery, enhancing the chances of
	retrieving large stones without causing damage.
	Did you know?
	Diamonds in India: Major Locations are
	 Panna belt: Madhya Pradesh
	 Wajrakarur Kimberlite pipe: Anantapur district,
	Andhra Pradesh
	 Krishna River basin gravels: Andhra Pradesh

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