





**Daily Current Affairs Encyclopedia** 



## 13 March 2024 National and International News

Cutlass Express 24	<ul> <li>Context:</li> <li>The Indian Navy led the maritime exercise</li> </ul>
	<ul> <li>"Cutlass Express" – 24 with INS Tir at Port Victoria, Seychelles.</li> <li>The exercise involved active engagement with participants from 16 friendly foreign countries.</li> <li>Training Activities: <ul> <li>The training encompassed theoretical and practical aspects of Maritime Interdiction Operations, Visit Board Search and Seizure (VBSS) procedures, and Diving operations.</li> <li>During the sea phase, the VBSS team of INS Tir boarded the Seychelles Coast Guard ship LE Vigilant, showcasing boarding operation procedures.</li> <li>Joint diving operations were conducted by Indian, US, and Seychelles divers after intensive training.</li> </ul> </li> <li>INS Tir: <ul> <li>INS Tir (A86) is the first dedicated cadet's training ship to be built by Mazagon Dock Limited and commissioned as such by the Indian Navy.</li> <li>She is the senior ship of the 1st Training Squadron of the Southern Naval Command.</li> <li>INS Tir was commissioned on 21 February 1986.</li> </ul> </li> </ul>
INS Tushil	Context: INS Tushil, India's latest naval asset, began its sea trials from Russia's Baltiysk naval base on March 5.
	<ul> <li>Key points: <ul> <li>INS Tushil belongs to the Talwar-class frigates, known for their stealth-guided missile capabilities.</li> <li>These frigates are upgraded versions of the Russian Krivak III-class frigates, originally used by the Coast Guard.</li> <li>The Indian Navy currently operates six of these ships, with four more under construction, including two at India's Goa shipyard.</li> <li>These ships incorporate "stealth technology" to</li> </ul> </li> </ul>









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	<ul> <li>minimize radar and underway</li> <li>They are equipped with weaponry, including missiles, sonar systems communication suites, ar systems, surface-to-air mounts.</li> <li>Designed for combat in br they can engage submarine air attacks independently or</li> <li>The frigates have a displace length of 124.8 meters, knots, and a cruising range</li> <li>Project 11356M:         <ul> <li>In October 2016, India and Inter-Governmental Agree Admiral Grigorovich-clast 11356M).</li> <li>Russia agreed to deliver INS Tushil and INS Tam build the other two domestic</li> <li>The construction of these s the Indian Navy's comprehensive naval wa air, surface, and sub-surfa</li> </ul> </li> </ul>	Indian and Russian surface-to-surface s, surveillance radar, nti-submarine warfare missiles, and gun own and blue waters, es, warships, and repel in formations. ement of 3620 tons, a a top speed of 30 ge of 4850 miles. And Russia signed an ement (IGA) for four ss frigates (Project two frigates, including ala, while India would cally. hips is tailored to meet requirements for arfare capabilities in
Gold Nanoparticles	<ul> <li>Context:         <ul> <li>Often referred to as 'gold b nanoparticles are recognit therapeutic and beautifyin skincare.</li> <li>They protect the skin from e combat aging, improve metarejuvenate the body.</li> </ul> </li> <li>Key points:         <ul> <li>Gold nanoparticles (AuNPs made of gold atoms, typic to 100 nanometers in size</li> <li>They possess unique optica catalytic properties due to the shape.</li> </ul> </li> </ul>	zed for their ng properties in external infestations, abolism, and ) are tiny particles ally ranging from 1 al, electronic, and
	<ul> <li>Benefits         <ul> <li>Easily absorbed by the skin rejuvenator, potentially be systems of the human box</li> <li>Integral to various Ayurvedi are known for their rejuvenation</li> </ul> </li> </ul>	enefiting various dy. c preparations, they









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	<ul> <li>immuno-modulating, beautifying, and healing properties.</li> <li>They slow down collagen depletion, stimulate cell regeneration, improve metabolism, and tone up muscles.</li> <li>They strengthen underlying tissue, bones, and nerves, contributing to a youthful appearance.</li> <li>Innovative formulations like sparkling gold face washes enriched with gold nanoparticles and natural ingredients offer potent skincare solutions.</li> </ul>
	<ul> <li>Applications         <ul> <li>Biomedical: Used in imaging, therapy, and diagnostics, serving as contrast agents in X-ray, computed tomography (CT), and photoacoustic imaging, and facilitating photothermal therapy and drug delivery.</li> <li>Catalysis: Exhibit remarkable catalytic activity in various chemical transformations.</li> <li>Electronics: Used in nanoelectronic devices, conductive inks, and sensors.</li> <li>Environmental Remediation: Employed in detecting and removing pollutants from water and soil.</li> </ul> </li> </ul>
<section-header></section-header>	<ul> <li>Context         <ul> <li>The Cabinet Committee on Security (CCS) cleared a Rs 15,000 crore project to design and develop the Advanced Medium Combat Aircraft (AMCA), India's fifth-generation fighter multirole fighter jet.</li> </ul> </li> <li>Agencies Involved         <ul> <li>The Aeronautical Development Agency (ADA) under the Defence Research and Development Organisation (DRDO) will be the nodal agency for executing the programme and designing the aircraft.</li> <li>It will be manufactured by state-owned Hindustan Aeronautics Limited (HAL).</li> </ul> </li> </ul>
Part of Municipal Control         And Cost         And	<ul> <li>Features</li> <li>Stealth features</li> <li>Low-probability-of-intercept radar</li> <li>Agile airframes with super cruise performance</li> <li>Advanced avionics features</li> <li>Highly integrated computer systems capable of networking with other elements within the battlespace</li> <li>Higher utilization time and smaller serviceability or</li> </ul>











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maintenance periods	
<ul> <li>Other fifth-generation fighters         <ul> <li>Only a few countries have built a fifth-gener stealth fighter aircraft.</li> <li>The list of the aircraft currently in service inclusion the F-22 Raptor and F-35A Lightning II of US, the Chinese J-20 Mighty Dragon, an Russian Sukhoi Su-57.</li> </ul> </li> </ul>	udes f the

#### Kerala Regional News

Prof. M.V. Pylee Award for T. Pradeep	<ul> <li>Context:</li> <li>Professor Thalappil Pradeep of IIT Madras was conferred the prestigious Prof. M.V. Pylee Award 2023 by Cochin University of Science and Technology (CUSAT)</li> <li>It was given to him in recognition of his distinction as a leading academician in India.</li> <li>The award includes a cash prize of ₹1 lakh, a citation, and a memento.</li> </ul>
Suspected case of Lyme disease reported in Ernakulam	<ul> <li>Context: <ul> <li>A suspected case of Lyme disease caused by the bite of a tick carrying borrelia bacteria has been reported from Koovapady in Ernakulam district.</li> </ul> </li> <li>About: <ul> <li>Lyme disease is a bacterial infection spread by Borrelia burgdorferi bacteria from infected lxodes ticks (blacklegged ticks in the US)</li> <li>The most common symptom is a bull's-eye rash around the tick bite, but fatigue, fever, and headaches can also occur.</li> </ul> </li> </ul>
	<ul> <li>Key Points: Transmission:</li> <li>Tick bite (usually attached for 36-48 hours or more)</li> <li>Cure:</li> <li>Early diagnosis is key to prevent the infection from reaching joints, the heart, or the nervous system.</li> </ul>











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	<ul> <li>Lyme disease is treatable with antibiotics, especially if caught early.</li> <li>Early treatment with antibiotics usually leads to a full recovery.</li> </ul>
Prime Minister launches five OSOP stalls in Kozhikode	<ul> <li>Context:</li> <li>The Prime Minister inaugurated five stalls promoting the "One Station One Product" (OSOP) scheme at railway stations in Kozhikode district, Kerala.</li> <li>Three stalls were set up at Kozhikode railway station, and one each at Koyilandy and Vadakara stations.</li> </ul>
	<ul> <li>About: <ul> <li>The "One Station One Product" initiative is a program by the Indian Railways to promote local artisans and products.</li> <li>Goal: Aligned with the "Vocal for Local" vision, OSOP aims to create a market for indigenous goods and provide livelihood opportunities.</li> <li>Functioning: Stations across India are designated to showcase and sell a single, signature product from their region.</li> <li>Products: These can be handicrafts, handloom textiles, food products, or anything specific to the local area.</li> </ul> </li> </ul>
National Good Samaritan Day	<ul> <li>Context: <ul> <li>National Good Samaritan Day is celebrated on March 13th each year.</li> <li>It's a day to recognize people who help others in need, without expecting anything in return.</li> <li>The day is named after the parable of the Good Samaritan in the Bible, which tells the story of a traveler who helps a wounded stranger.</li> <li>The day was first recognized by the United States White House in 1996 in honour of the life of sports journalist and humanitarian Chad Powellin.</li> </ul></li></ul>
	<ul> <li>Key points:</li> <li>Promotes kindness and charity: It encourages people to be more helpful and compassionate towards others.</li> <li>Honors selfless acts: Recognizes those who go out of their way to assist strangers.</li> <li>Importance of community: Highlights the value of helping one another and building a stronger community.</li> </ul>











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Context:

- Paddy conservationist Cheruvayal Raman inaugurated 'Nera Thinka', the tribal medicine, food, art and literature festival organised by the Kerala Institute for Research Training and **Development Studies of Scheduled Castes and** Scheduled Tribes (KIRTADS) in Kozhikode
- Former State Council of Educational Research and • Training (SCERT) Director K. Prasad was the guest of honour on the occasion.

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