

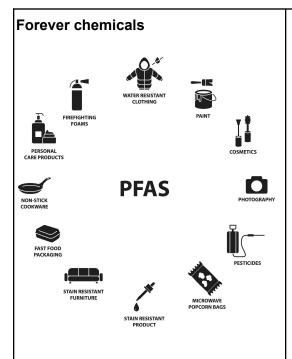
To get free Live Classes, Materials Scan this QR Code & Download our Adda247 App



Daily Current Affairs Encyclopedia

17 August 2024

National and International News



Why in the news?

- American researchers have achieved a major breakthrough by discovering a method to trace the origin and destination of forever chemicals.
- Researchers used a technique involving magnetic fields and radio waves to track the spread of "forever chemicals" in global ecosystems.

About Forever chemicals:

- Scientifically known as per-and polyfluoroalkyl substances (PFAS).
- **Common applications**: water-proofing, heat resistance, detergents, food packaging, and non-stick technologies.
- Environmental impact: Persist in the environment indefinitely, leading to environmental degradation.
- Health Risks of PFAS:
 - Testicular, kidney, liver, and pancreatic cancer.
 - o Reproductive issues.
 - Weakened childhood immunity.
 - Low birth weight.
 - o Endocrine disruption.
 - Increased cholesterol levels.
 - Weight gain in children and dieting adults.





To get free Live Classes, Materials Scan this QR Code & Download our Adda247 App



Daily Current Affairs Encyclopedia

New Ramsar sites in India	Why in the news?
	Recently, the Union Minister for Environment, Forest, and Climate Change announced that three additional wetlands from India have been added to the Ramsar sites list.
	New Ramsar sites in India: Nanjarayan Bird Sanctuary: Location: Tamil Nadu Historical Significance: Named after King Nanjarayan, who repaired and restored the lake centuries ago. Kazhuveli Bird Sanctuary: Status: Declared the 16th bird sanctuary in Tamil Nadu in 2021. Location: Tamil Nadu Significance: One of the largest wetlands in peninsular India, rich in biodiversity. Migratory Path: Lies in the Central Asian Flyway, serving as a crucial stopover for migratory birds. Tawa Reservoir: Location: Largest protected area in Madhya Pradesh. Construction: Built at the confluence of Tawa and Denwa rivers. Significance: Located within the Satpura Tiger Reserve, forming the western boundary of Satpura National Park and Bori Wildlife Sanctuary.
Prerana Programme	 Why in the news? The Union Minister of Education recently engaged with students, teachers, parents from PM SHRI Schools, and alumni of the Prerana Programmes. About Prerana Programme: Launch Date: January 2024. Launched By: Union Education Ministry. Objective: Integration of Indian education system principles and value-based education as outlined in the National Education Policy (NEP) 2020. Target Audience: Selected students of Class IX to XII. Program Features:







Daily Current Affairs Encyclopedia

- **Experiential Learning**: Best-in-class technology where heritage meets innovation.
- Student Selection: 20 students (10 boys and 10 girls) from various parts of India attend the program weekly.
- Value-Based Themes: The curriculum is rooted in 9 themes:
 - Swabhiman and Vinay
 - Shaurya and Sahas
 - o Parishram and Samarpan
 - Karuna and Sewa
 - Vividhta and Ekta
 - Satyanishtha and Shuchita
 - Navachar and Jigyasa
 - Shraddha aur Vishwas
 - Swatantrata and Kartavya
- Program Aim: To inspire youth and foster respect for Bharat's unity in diversity, embodying the spirit of "Vasudhaiva Kutumbakam."

Gastrodia indica



Why in the news?

 A unique orchid species, Gastrodia indica, was recently discovered in Sikkim's Fambonglho Wildlife Sanctuary.

About Gastrodia indica:

- First Orchid from India that Never Opens Its Flower: The first cleistogamous species of the genus Gastrodia discovered from India, named Gastrodia indica.
- Habitat: Thrives in dense, rotten leaf litter associated with trees like Magnolia doltsopa, Acer campbelli, and Quercus lamellose.
- Contribution to Botanical Diversity: The discovery of Gastrodia indica increases the total number of Gastrodia species in India to 10.
- **Conservation Concerns**: Faces potential threats due to its limited population and specific habitat requirements.





To get free Live Classes, Materials Scan this QR Code & Download our Adda247 App



Daily Current Affairs Encyclopedia

Prokaryotes

Why in the news?

Scientists have discovered that prokaryotes are highly resilient to climate change, which may lead to their increased dominance in marine environments.

About Prokaryotes:

- Single-Celled Organisms: Prokaryotes are single-celled organisms that lack a distinct nucleus and other membrane-bound organelles.
- Cell Organisation:
 - Basic structural components include a cell wall (absent in mycoplasma), cytoplasm, and a plasma membrane.
 - They lack a well-defined nucleus.
- Historical Significance: Prokaryotes are considered to be the oldest cell-based lifeforms on Earth.
- Habitat:
 - They thrive across the entire planet, **both on land** and in water.
 - They are **found in** environments ranging from the tropics to the poles.
- Ecological Significance: Prokaryotes play a crucial role in the world's food chains, supporting the nutrient needs of fish consumed by humans.

Copyright © by Adda247

All rights are reserved. No part of this document may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, without prior permission of Adda247.