

PRABHA IAS IPS COACHING ACADEMY



DAILY DOSE

CURRENT AFFAIRS – 16/02/2026

1. Piton de la Fournaise Volcano:

Recent - The Piton de la Fournaise volcano on Reunion Island erupted for the second time this year.

It occupies the east-southeastern end of French Island La Réunion in the western Indian Ocean.

It is a massive basaltic shield volcano.

It is built on the flank of the larger and older Piton des Neiges volcano whose early activity was basaltic but ended with eruption of differentiated alkaline lavas.

It is one of the most active volcanoes in the world.

2. Exposome:

Recent - Scientists are launching an ambitious global effort to map the “human exposome” — the lifelong mix of environmental and chemical exposures that drive most diseases.

It can be defined as the measure of all the exposures of an individual in a lifetime, from conception onward, and how those exposures relate to health.

The International Human Exposome Network (IHEN) defines the exposome as the "integrated compilation of all physical, chemical, biological, and psychosocial factors, and their interactions."

It reveals the accumulated lifetime exposures that determine our health, wellness, and susceptibility to disease.

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3. *Leiogalatheia Samudragiri*:

Recent - Researchers recently discovered a new species of squat lobster named *Leiogalatheia samudragiri* off Lakshadweep's coast.

It is a new species of squat lobster.

It was found living 360 metres below the surface near Minicoy, part of the Lakshadweep archipelago.

The discovery was made during a research cruise as part of India's ambitious Deep Ocean Mission (Samudrayaan program).

L. samudragiri possesses smooth, uninterrupted ridges running across the top of its shell, whereas its closest relatives have ridges that are broken or interrupted.

4. **Bio-Based Chemicals**:

Recent - India has prioritised bio-based chemicals and enzymes as a priority area under the Department of Biotechnology's BioE3 policy.

Bio-based chemicals are industrial chemicals produced using biological feedstocks like sugarcane, corn, starch, or biomass residues.

These are often produced through fermentation or enzymatic processes.

Examples: Organic acids (such as lactic acid), bio-alcohols, solvents, surfactants, and intermediates used in plastics, cosmetics, and pharmaceuticals.

Unlike conventional chemicals, for which the largely available supplies are obtained through sources of fossil fuel, bio-based alternatives reflect a sustainable solution.

5. **Osteoporosis**:

Recent - Osteoporosis is a bone-weakening disease that afflicts tens of millions of people, and much-needed new treatments could be on the way

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after researchers discovered a key mechanism behind how exercise strengthens bones.

It is a disease in which your bones become weak and are likely to fracture (break).

People with osteoporosis are much more likely to experience broken bones (bone fractures).

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