

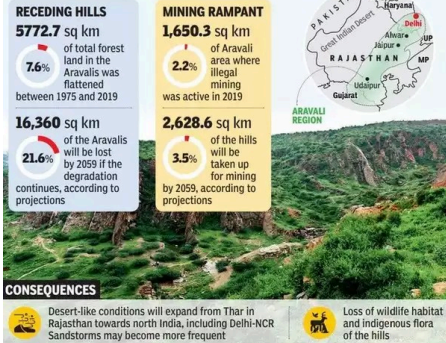


10 May 2024

### National and International News

#### Aravalli hills

##### '3.5% OF HILLS TO BE TAKEN UP FOR MINING BY 2059'



#### Why in news?

- The **Supreme Court** has halted the issuance of new mining leases and renewals in the Aravalli ranges and hills.
- This decision is based on a **report from the Forest Survey of India (FSI)**.

#### Key points:

- The FSI report was presented in court by the **Central Empowered Committee (CEC)**.
- According to the FSI report, the **Aravallis are defined to include the hills and a uniform 100-metre-wide buffer zone around the downsides of the hills.**

#### About Aravalli hills:

- The Aravalli range runs approximately in a **south-west direction**, starting near **Delhi**, passing through southern **Haryana**, **Rajasthan**, and ending in **Ahmedabad**, **Gujarat**.
- The highest peak is **Guru Shikhar** in **Mount Abu** at **1,722 m**.
- The Aravalli Range is **arguably the oldest geological feature on Earth**, having its **origin in the Proterozoic era**.
- The **range gives rise to several rivers**, including the **Banas**, **Luni**, **Sakhi**, and **Sabarmati**.

#### Widal Test

#### Why in news?

- The **Widal Test** often gives **inaccurate results** masking the **true extent of India's typhoid problem**.
- This situation is **leading to increased expenses**.
- It also poses a **risk of increasing antimicrobial resistance**.

#### About Widal Test:

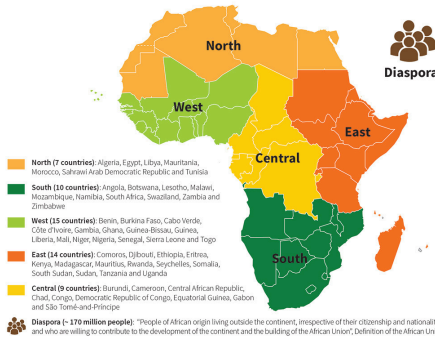
- **Typhoid fever**, is a **bacterial infection** caused by the **bacterium Salmonella Typhi**.
- It is commonly **spread through contaminated food or water**.



- Symptoms of typhoid fever include fatigue, high fever, headache, diarrhoea or constipation, abdominal pain, weight loss, and red spots.
- These symptoms are similar to those of malaria, dengue, influenza, and typhus, making it difficult to diagnose without proper testing.
- The **Widal test is a serological test** that detects antibodies against the bacteria in a patient's blood sample.
- The test was developed in the late 1800s by a French physician but is no longer used in many countries because of its flaws.
- The **World Health Organization (WHO) advises not to rely too much** on this test due to the various factors that can influence the results.

**African Union (AU)**

THE SIX REGIONS OF THE AFRICAN UNION



**Why in news?**

- The **African Union (AU)** condemned the Israeli military's actions in southern Gaza's Rafah.

**About AU:**

- The African Union (AU) is a **continental body** made up of **55 member states** that constitute the countries of the **African Continent**.
- The AU was **officially launched in 2002**, replacing its predecessor, the **Organization of African Unity (OAU)**, which was **founded in 1963**.
- The **primary objective** of the AU is to **promote unity, cooperation, and development among African nations** and to **advance the continent's interests on the global stage**.
- To realize its objectives and the **Pan African Vision** of an integrated, prosperous, and peaceful Africa, the AU developed **Agenda 2063**. This is a **strategic framework for Africa's long-term socio-economic and integrative transformation**.
- The **headquarters of the AU** is located in **Addis Ababa, Ethiopia**.

**Blue corner notice**

**Why in news?**

- There is a **political storm in Karnataka** over serious **allegations of sexual abuse** against, a sitting MP from Hassan.



### TYPES OF INTERPOL NOTICES



**RED NOTICE:** To seek the location and arrest of wanted persons with a view to extradition or similar lawful action.



**YELLOW NOTICE:** To help locate missing persons, often minors, or to help identify persons who are unable to identify themselves.



**BLUE NOTICE:** To collect additional information about a person's identity, location or activities in relation to a crime.



**BLACK NOTICE:** To seek information on unidentified bodies.



**GREEN NOTICE:** To provide warnings and intelligence about persons who have committed criminal offences and are likely to repeat these crimes in other countries.



**ORANGE NOTICE:** To warn of an event, a person, an object or a process representing a serious and imminent threat to public safety.



**INTERPOL-UN SECURITY COUNCIL SPECIAL NOTICE:** Issued for groups and individuals who are the targets of UN Security Council sanctions committees.



**PURPLE NOTICE:** To seek or provide information on modus operandi, objects, devices and concealment methods used by criminals.

- The **International Criminal Police Organisation**, also known as **Interpol**, has issued a **blue corner notice** against the absconding politician.

### About Blue corner notice:

- **Interpol's colour-coded notices** are part of an **elaborate system** that enables countries to share alerts and requests for information on wanted persons or crimes worldwide.
- There are **seven types of notices**, each with a different implication:
  - **Red Notice:** Seeks the location and arrest of persons wanted for prosecution or to serve a sentence.
  - **Yellow Notice:** Helps locate missing persons, often minors, or helps identify persons who are unable to identify themselves.
  - **Blue Notice:** Collects additional information about a person's identity, location, or activities in relation to a criminal investigation.
  - **Black Notice:** Seeks information on unidentified bodies.
  - **Green Notice:** Provides a warning about a person's criminal activities, where the person is considered to be a possible threat to public safety.
  - **Orange Notice:** Warns of an event, a person, an object, or a process representing a serious and imminent threat to public safety.
  - **Purple Notice:** Seeks or provides information on modus operandi, objects, devices, and concealment methods used by criminals.
- **These notices are issued by the Interpol's General Secretariat** at the request of a member country's **Interpol National Central Bureau** and are made available for all member countries.

### AlphaFold

### Why in news?

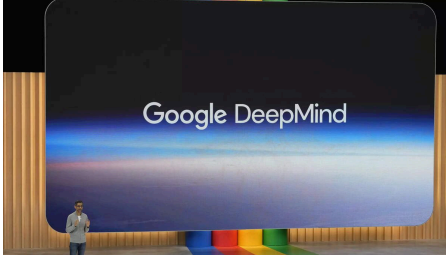
- **Google Deepmind** has unveiled the third major version of its "**AlphaFold**" artificial intelligence model.
- The **model is designed to help scientists design drugs and target disease more effectively.**
- **The company used AI to successfully predict the behaviour of microscopic proteins.**



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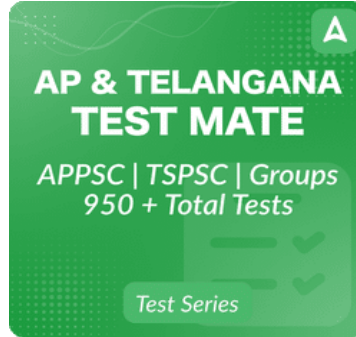


## Daily Current Affairs Encyclopedia



### About AlphaFold:

- **AlphaFold** is a new AI model developed by Google DeepMind and Isomorphic Labs.
- It's a revolutionary model that can predict the structure and interactions of all life's molecules with unprecedented accuracy.
- The model can generate a joint 3D structure of molecules, revealing how they all fit together.
- It models large biomolecules such as proteins, DNA, and RNA, as well as small molecules, also known as ligands — a category that includes many drugs.
- Furthermore, AlphaFold 3 can model chemical modifications to these molecules which control the healthy functioning of cells. When disrupted, these can lead to disease.
- It assembles its predictions using a diffusion network, similar to those found in AI image generators.



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