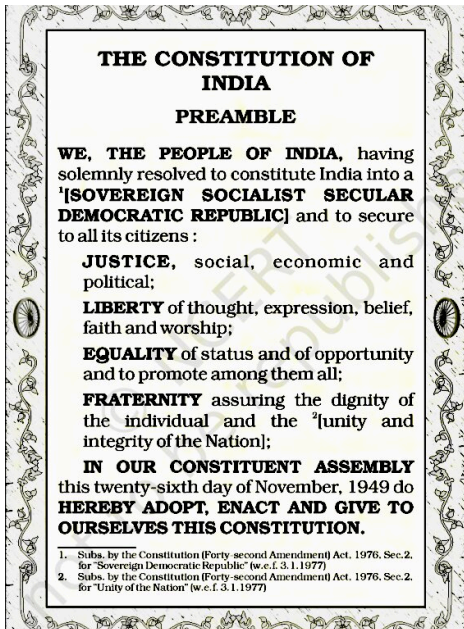




06 August 2024

National and International News

Preamble of the Constitution



Why in the news?

- Preamble of the Constitution dropped from select new NCERT textbooks.

About Preamble of the Constitution:

- The Preamble to the Constitution of India is a brief introductory statement that sets out the **guiding purposes and principles of the document**.
- **Adoption:** Adopted on **November 26, 1949**, and came into effect on **January 26, 1950**.
- **Key Components:**
 - **Sovereign:** India is independent and free from external control.
 - **Socialist:** Emphasizes social and economic equality.
 - **Secular:** No state religion; all religions are treated equally.
 - **Democratic:** Government by the people through elected representatives.
 - **Republic:** The head of state is elected, not a hereditary monarch.
- **Objectives:**
 - **Justice:** Social, economic, and political justice for all citizens.
 - **Liberty:** Freedom of thought, expression, belief, faith, and worship.
 - **Equality:** Equal status and opportunities for all individuals.
 - **Fraternity:** Promoting a sense of brotherhood, unity, and integrity of the nation.
- **Amendments:** The Preamble has been **amended only once by the 42nd Amendment Act in 1976**, which added the terms **"Socialist"** and **"Secular"** and changed "Unity of the Nation" to **"Unity and Integrity of the Nation."**



Daily Current Affairs Encyclopedia

Glioblastoma

Why in the news?

- In an innovative study of glioblastoma, scientists used **Artificial Intelligence (AI)** to reprogram cancer cells into dendritic cells (DCs).
- These reprogrammed DCs can identify cancer cells and **direct other immune cells to kill them.**

About Glioblastoma:

- **Glioblastoma is a type of cancer that starts as a growth of cells in the brain or spinal cord.**
- **Cause:**
 - **Caused by DNA mutations** leading to **uncontrolled cell growth.**
 - The **underlying causes** of these genetic mutations are largely **unknown.**
- **Characteristics:**
 - **Glioblastoma tumors create their own blood supply,** aiding their growth.
 - Tumors easily invade and **destroy normal brain tissue.**
 - It grows quickly and can invade healthy tissue.
- **Demographics:**
 - **Can occur at any age** but is more common in older adults.
 - **Accounts for almost half of all cancerous brain tumors** in adults.



Daily Current Affairs Encyclopedia

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| <p>Astra Missile</p> | <p>Why in the news?</p> <ul style="list-style-type: none"> The Indian Air Force (IAF) has approved the production of 200 Astra air-to-air missiles by the Defence Research and Development Organisation (DRDO) and Bharat Dynamics Limited (BDL) for its Su-30 and LCA Tejas fighter aircraft. <p>About Astra Missile:</p> <ul style="list-style-type: none"> Astra is a Beyond-Visual-Range (BVR) air-to-air missile designed to be mounted on fighter aircraft. It is indigenously developed by the Defence Research and Development Organisation (DRDO) and manufactured by Bharat Dynamics Ltd. (BDL) for the Indian Air Force (IAF). The missile was built to engage and destroy aerial targets, which have high maneuverability and supersonic speed. The missile is capable of advanced air combat, which allows it to engage in multiple high-performance targets. |
| <p>Lyme disease</p> | <p>Why in the news?</p> <ul style="list-style-type: none"> Lyme disease is a major public health concern in the US, affecting around 476,000 individuals annually. <p>About Lyme disease:</p> <ul style="list-style-type: none"> Cause: Vector-borne infectious disease caused by the bacterium Borrelia burgdorferi. Transmission: <ul style="list-style-type: none"> Primarily transmitted to humans through the bite of infected black-legged ticks (deer ticks). Not spread between humans, from pets to humans, or through air, food, water, lice, mosquitoes, fleas, and flies. Geographic Prevalence: <ul style="list-style-type: none"> Common in wooded and grassy areas worldwide, particularly during warmer months. Most commonly reported in North America, Europe, and some parts of Asia. |



Daily Current Affairs Encyclopedia

WHO Global Traditional Medicine Centre (WHO GCTM)

Why in the news?

- India has committed \$85 million over ten years (2022–2032) to support the programming of the WHO Global Traditional Medicine Centre.

About WHO GCTM:

- **Establishment and Inauguration:**
 - WHO GCTM is a knowledge centre for traditional medicine in Jamnagar, Gujarat.
 - It is the first global outpost centre for traditional medicine, established under the Ministry of AYUSH.
- **Primary Objective:**
 - Harness the potential of traditional medicine globally through modern science and technology.
 - Improve the overall health of communities worldwide.
- **Guiding Principle:** Respect for local heritages, resources, and rights.

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