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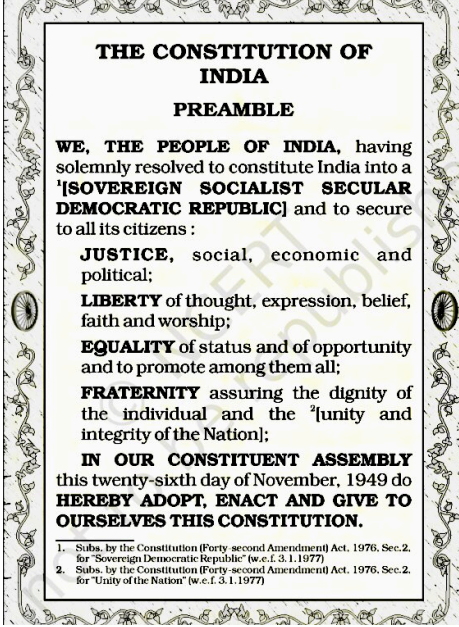


Daily Current Affairs Encyclopedia

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



	<p>changed "Unity of the Nation" to "Unity and Integrity of the Nation."</p>
Glioblastoma	<p>Why in the news?</p> <ul style="list-style-type: none">● 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. <p>About Glioblastoma:</p> <ul style="list-style-type: none">● Glioblastoma is a type of cancer that starts as a growth of cells in the brain or spinal cord.● Cause:<ul style="list-style-type: none">○ Caused by DNA mutations leading to uncontrolled cell growth.○ The underlying causes of these genetic mutations are largely unknown.● Characteristics:<ul style="list-style-type: none">○ 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:<ul style="list-style-type: none">○ Can occur at any age but is more common in older adults.○ Accounts for almost half of all cancerous brain tumors in adults.



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Astra Missile

Why in the news?

- 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.

About Astra Missile:

- 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.

Lyme disease

Why in the news?

- **Lyme disease** is a **major public health concern in the US**, affecting around 476,000 individuals annually.

About Lyme disease:

- **Cause: Vector-borne infectious disease** caused by the bacterium **Borrelia burgdorferi**.
- **Transmission:**
 - **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:**
 - Common in wooded and grassy areas worldwide, particularly during warmer months.



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	<ul style="list-style-type: none">○ Most commonly reported in North America, Europe, and some parts of Asia.
WHO Global Traditional Medicine Centre (WHO GCTM)	<p>Why in the news?</p> <ul style="list-style-type: none">● India has committed \$85 million over ten years (2022–2032) to support the programming of the WHO Global Traditional Medicine Centre. <p>About WHO GCTM:</p> <ul style="list-style-type: none">● Establishment and Inauguration:<ul style="list-style-type: none">○ 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:<ul style="list-style-type: none">○ 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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