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1. Notifiable Disease

Prelims Perspective: What needs to be learned?

- Definition and examples of Notifiable Diseases in India
- Who Declares Notifiable Diseases in India

Mains Perspective: Notes need to be prepared

- Issues relating to health (GS II -Social Justice)
- Diseases (GS III - Science & Technology)

What needs to be known?

- Notifiable Disease
 - **What is it?:** Diseases are legally required to be reported to government authorities for monitoring and preventing outbreaks.
 - **Power to Declare Notifiable Disease:**
 - ★ Lies with the Centre and State Government under the Epidemic Diseases Act, 1897, and other public health laws.
 - **Common Notifiable Diseases in India:**
 - ★ **Infectious diseases:** Tuberculosis (TB), HIV/AIDS, Cholera, Malaria, Plague, Dengue, COVID-19.
 - ★ **Non-communicable diseases:** Cancer (some states), mental health disorders (increasing inclusion).
 - ★ **Others:** Japanese Encephalitis, Measles, Rabies, H1N1, and Leprosy.



2. Aditya-L1 Mission

Prelims Perspective: What needs to be learned?

- Objective and mission details- Lagrange Points
- Sun- Layers and phenomena like sunspots, solar flares.

Mains Perspective: Notes need to be prepared

- Space Technology (GS III- Science and Technology)
- Solar system (GS I - Geography)

What needs to be known?

- Aditya-L1 Mission

→ **What is it?:** It is a solar observatory mission launched by ISRO to L1 Lagrange point using the **Polar Satellite Launch Vehicle (PSLV) XL**.

→ **Objective:** To study layers of sun, solar wind and Coronal Mass Ejection, flares.

- Lagrange Points

→ **What is it?:** Lagrange points are special positions in space where the gravitational forces of two large orbiting bodies, such as the Sun and the Earth, balance each other out.

- Terms Associated with the Sun

→ **Solar Wind:** The solar wind is made of plasma (ionised atoms), a stream of energised, charged particles, primarily electrons and protons, flowing outward from the Sun at speeds as high as 900 km/s and at a temperature of 1 million°C.

→ **Solar Flares:** Solar flares are magnetic storms which appear to be very bright spots with a gaseous surface eruption.



→ **Coronal Mass Ejection (CME):** A Coronal Mass Ejection (CME) is a massive burst of plasma and magnetic field released from the Sun's outer atmosphere (the corona) into space.



3. Free Trade Agreement (FTA)

Prelims Perspective: What needs to be learned?

- Free Trade Agreement
- Levels of Economic Integration

Mains Perspective: Notes need to be prepared

- Implications of Free Trade Agreements on the Indian Economy (GS III- Economy)
- Effects of agreements involving India and/or affecting India's interests (GS II – IR)

What needs to be known?

- Free Trade Agreement (FTA)

→ **What is it?:** Eliminates tariffs and quotas on most goods and services among members, but each retains its own external tariffs. Examples include NAFTA (now USMCA) and EFTA.

- Levels of Economic Integration

→ **Preferential Trade Agreement (PTA):** Countries offer reduced tariffs on select goods to each other while maintaining individual trade policies with outsiders. This is the shallowest form.

→ **Free Trade Area (FTA)**

→ **Customs Union:** Adds a common external tariff (CET) on non-members to an FTA, harmonizing trade policy toward outsiders. The EU began as one.

→ **Common Market:** Extends customs union by allowing free movement of factors like labor and capital across borders.

→ **Economic and Monetary Union:** Harmonizes fiscal, monetary policies, and often adopts a single currency, with supranational institutions. The Eurozone exemplifies this.

→ **Complete (Political) Union:** Full unification of economic, fiscal, and political policies under a central authority, with synchronized sovereignty.