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ACCREDITED SOCIAL HEALTH ACTIVIST (ASHA)



- ASHA is a trained female community health activist.
- The ASHA program is funded by the National Rural Health

Mission (**NHRM**) in an effort to promote public health awareness amongst local, rural populations, and increase the utilization and accountability of existing health services.

Selected from the community itself and accountable to it, the ASHA worker is trained to work as an interface between the community and the public health system.

Functions:

- Act as a **care provider** at the community level
- Facilitating access to healthcare, medicine, and sanitation services
- **Raising the level of awareness** of health issues among the marginalised sections within the community
- Advocate for female health and hygiene standards
- Advocate for a health-conscious behaviour and approach to livelihood
- The ASHA scheme is presently in place in all States/UTs (except Goa).
- The States are mandated to employ at least one ASHA worker per every 1000 people.
- They receive basic public health training and are equipped with a standard drug kit, which allows them to deliver first-contact healthcare.
- They are chosen through a **rigorous process of selection involving** various **community groups, self-help groups, Anganwadi Institutions, Block Nodal officer,** District Nodal officer, the **village Health Committee,** and the **Gram Sabha**.
- Selection Criteria:
 - In rural areas, ASHA must primarily be a woman resident of the village, married/widowed/divorced, preferably in the age group of 25 to 45 years and literate, preferably qualified up to 10th standard (formal education up to Class 8).

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- In urban areas, ASHA must be a woman resident of the "slum/vulnerable clusters" and belong to that particular vulnerable group which have been identified by the City/District Health Society for selection of ASHA and must have good communication and leadership skills.
- The **States** have been **given the flexibility to relax the population norms** as well as the **educational qualifications** on a case-to-case basis, depending on the local conditions as far as her recruitment is concerned.

• Compensation for ASHA:

- An ASHA worker is primarily an "honorary volunteer" but is compensated for her time in specific situations (such as training attendance, monthly reviews, and other meetings).
- On average, an ASHA worker's monthly income varies from Rs 2,000 per month to Rs 7,000 per month, depending on the state.
- In addition, she is **eligible for incentives** offered under various national health programmes.
- She would also have income from the social marketing of certain healthcare products like condoms, contraceptive pills, sanitary napkins, etc.
- Her work should be so designed that it is done without impinging on her main livelihood and adequate monetary compensation for the time she spends on these tasks- through performance based payments should be provided.

CARBON BORDER ADJUSTMENT MECHANISM (CBAM)



- It is a European Union (EU) tariff on carbon-intensive products.
- It is a new EU instrument **for preventing carbon leakage**, that is, the shifting of the production of goods to non-EU countries where there is a lower or no carbon cost associated with their production.

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Purpose: To put a fair price on the carbon emitted during the production of carbonintensive goods that are entering the EU and to encourage cleaner industrial production in non-EU countries

 By confirming that a price has been paid for the embedded carbon emissions generated in the production of certain goods imported into the EU, the CBAM will ensure the carbon price of imports is equivalent to the carbon price of domestic production, and that the EU's climate objectives are not undermined.

Imports mean any imports to the EU from outside the EU, **including e.g.**, **imports of goods ordered online and imports of gifts**.

• The CBAM is designed to be **compatible with WTO rules**.

Carbon Certificates:

- If implemented as planned, **EU importers** will **have to buy carbon certificates corresponding to the carbon price** that would have been paid in the EU if the goods had been produced locally.
- The price of the certificates would be calculated according to the auction prices in the EU carbon credit market.
- The number of certificates required would be defined yearly by the quantity of goods and the embedded emissions in those goods imported into the EU.
- **EU importers will declare the emissions embedded** in their imports and **surrender the corresponding number of certificates** each year.
- If importers can prove that a carbon price has already been paid during the production of the imported goods, the corresponding amount can be deducted.
- Companies in countries with a domestic carbon pricing regime equivalent to the EU's will be able to export to the EU without buying CBAM certificates.

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WHAT IS PETRIFICATION?



Geologists and forest officials recently unearthed a rare and wellpreserved petrified fossil at Rajmahal Hills near Barmasia village in Pakur district, Jharkhand.

- Petrification (petros means stone) occurs when the organic matter is completely replaced by minerals and the fossil is turned to stone.
- This generally occurs by filling the pores of the tissue and inter- and intracellular spaces with minerals, then dissolving the organic matter and replacing it with minerals.
- This method reproduces the original tissue in every This kind of fossilization occurs in both hard and soft tissues.
- This typically occurs when the material is buried under sediment and exposed to mineralrich water over long periods.
- This process is involved in many forms of fossilization and leaves behind many stunning and **beautifully preserved fossils.**
- An example of this kind of fossilization is petrified wood.

SVALBARD GLOBAL SEED VAULT



Recently, the Svalbard Global Seed Vault received more than 14,000 new seed samples.

- It is the largest backup facility for the **world's crop diversity**.
- Svalbard is the Norwegian archipelago half way between the Northern pole and Mainland Norway.

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- The Seed Vault's objective is to **safeguard as much of the world's unique crop genetic** material as possible while also avoiding unnecessary duplication.
- It offers **free-of-charge**, **long-term storage** of **seed** duplicates from international, national and regional gene banks and institutions.
- The ownership of the seeds **remains with the depositing gene bank**. In the Seed Vault they are stored under so called black box conditions, meaning that only the **institution that deposited the seeds has access** and is allowed to withdraw them.
- It was set deep inside a mountain to withstand disasters from nuclear war to global warming, **in 2008** as a backup for the world's gene banks that store the genetic code for thousands of plant species.
- It has the capacity to store 4.5 million varieties of crops.
- The facility serves a humanitarian purpose and is part of the international system for conserving plant genetic diversity guided by the UN organisation for Food and Agriculture (FAO).

KUNDI WATER HARVEST SYSTEM



• The kundi (also known as a kund) is a **traditional rainwater harvesting system** that is predominantly found in desert regions in

Rajasthan, India.

- This system is designed to capture and store rainwater, which is crucial in arid and semiarid areas where water is scarce and rainfall is unpredictable.
- Structure:
 - It consists of a **deep**, **circular or rectangular pit** that is either dug into the ground or constructed above ground.
 - It is usually **lined with stones, bricks, or other materials** to reinforce the structure and prevent seepage.

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- The pit is often **covered with a lid or stone slab** to prevent contamination from debris and to reduce evaporation.
- Rainwater is collected through channels or from rooftops, and then funneled into the kundi, where it is stored for use during the dry season.
- Significance:
 - It serves as an efficient method of water conservation, particularly in places where surface water is limited, and access to groundwater is difficult.
 - It helps to ensure that water is available for drinking, irrigation, and other domestic purposes when rainfall is scarce.

<u>SPHEREX TELESCOPE</u>



• The Spectro-Photometer for the History of the Universe, Epoch of Reionization and Ices Explorer (SPHEREx) telescope is a megaphone-shaped telescope.

- Tenure: 2 year
- Aims of SPHEREx:
 - It **will map the universe** while detecting two kinds of cosmic light, optical and infrared.
 - It will measure something called **cosmic inflation**.
 - **Cosmic inflation** refers to a period which took place around 14 billion years ago, during which the universe expanded faster than the speed of light for a fraction of a second.
 - It will help better understand things about the **formation of the universe**, the **growth of all galaxies across cosmic history**, and the location of **water and life-forming molecules in the Milky Way galaxy.**
 - It will use spectroscopic images to measure the 3D positions of about 450 million galaxies across cosmic history.

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• It will complement the work being done by other infrared telescopes in space, such as **the James Webb Space Telescope and Hubble Space Telescope**.

Significance of this Initiative:

- Mapping the whole sky enables astronomers to identify promising regions for life and gather large-scale data to separate meaningful patterns from anomalies, making this mission a transformative step in the search for life beyond Earth.
- One can determine the necessary conditions to form biogenic molecules in space.
 In turn, this can tell about a crucial step in how life came to be.

LANGUAGE POLICY IN INDIA - THE THREE-LANGUAGE FORMULA AND ITS CHALLENGES

- Historical perspective:
 - **Post-Independence**, language policies have remained controversial.
 - Language has been perceived as **a medium of instruction** rather than a cognitive tool.
 - Colonial influence shaped the education system's focus on instruction rather than exploration.
- Constituent assembly and language policy:
 - The issue of a national language was debated extensively during Constitution drafting.
 - **Hindi's adoption** as an official language was **fraught with complexities** due to its multiple varieties.
 - English retained prominence, despite expectations of its gradual decline.

Evolution of the Three-Language Formula:

- The three-language formula:
 - It is a language learning policy introduced in the 1968 National Policy on Education.

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- It mandated that students across India **learn three languages:** their regional language (mother tongue), Hindi, and English.
- **Hindi-speaking states** must study a modern Indian language (preferably from the south) instead of Hindi as their third language.
- NEP 2020 and the three-language formula:
 - The National Education Policy (NEP) 2020 has retained the three-language formula albeit with a key difference that it doesn't impose any language on any State.
 - It specifies that the languages to be learnt will be the choice of States, regions and the students, so long as at least two of the three languages are native to India.
- Implementation challenges across India:
 - In the Hindi-speaking states, the third language rarely includes contemporary languages from other Indian states.
 - Private schools in northern states do not prioritize regional languages like Tamil or Punjabi.
 - **Political concerns over language education** have remained divisive and often counterproductive.
- Role played by the CABE:
 - The Central Advisory Board of Education (CABE), a remarkable forum that had served India since the 1920s, has played a crucial role in shaping language policies.
 - CABE helped **navigate federal governance challenges** in education but has been **inactive in recent years**.

Conclusion:

The **debate** over language education in India remains **unresolved**. Tamil Nadu's steadfast opposition to the three-language formula reflects **deeper concerns** over **linguistic identity and federal policies**.

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DELIMITATION AND THE SOUTH

- Delimitation is a constitutional mandate carried out after each Census to readjust the number of seats in Parliament and state Assemblies and redefine constituency boundaries.
 - Article 82 of the Constitution mandates that after each Census, the allocation of Lok Sabha seats must be adjusted based on population changes.
 - However, Article 81 limits the total number of Lok Sabha members to 550, with 530 from states and 20 from Union Territories.
 - It also requires that the ratio of seats to the population in each state be as uniform as possible, ensuring that constituencies across the country have roughly equal populations.
- The goal is to ensure equal representation by maintaining similar population sizes across constituencies.
- History of Delimitation in India
 - Pre-1976: After the Censuses of 1951, 1961, and 1971, seats in Lok Sabha, Rajya Sabha, and state Assemblies were redistributed.
 - 42nd Amendment (1976): During the Emergency, Parliament froze the total number of seats until the 2001 Census to prevent states with higher population growth from losing representation while implementing family planning measures.
 - **2001 Delimitation:** While constituency boundaries were redrawn, the number of seats remained unchanged due to opposition from southern states.
- Impact of Delimitation on Elections
 - Regional parties in the South fear that delimitation based on population will benefit parties with a strong base in North India.

Concerns of Southern States Over Delimitation

• Southern states fear that delimitation based on the latest population data will reduce their representation in Parliament, weakening their political influence.