



# INSTA ವಿದ್ಯಮಾನ

**A Weekly Current Affairs Initiative**

**KAS, FDA/SDA/PDO/ GROUP C,  
PSI/PC, TEACHER'S EXAMS**

**ಕನ್ನಡ & English**

**By- Nandan Sir**

**November 2<sup>nd</sup> Week 2025**

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## INSTA ವಿದ್ಯಮಾನ

### WEEKLY CURRENT AFFAIRS NOVEMBER 2<sup>ND</sup> Week 2025

#### India, Nepal Ink Pact to Step Up Trade Ties Syllabus: GS2/IR



- **Defence Cooperation:** Both countries conduct **Joint Military Exercise SURYA KIRAN** alternately in India and in Nepal.
- The **Gorkha regiments of the Indian Army** are raised partly by recruitment from hill districts of Nepal.
- **Trade and Economic:** **India remains Nepal's largest trade partner and Investment** where Indian firms account for 33.5 % of total FDI stock in Nepal.
- **Operation Maitri & post-earthquake reconstruction assistance:** In the wake of the **2015 earthquake in Nepal**, GoI was the first responder and carried out its largest disaster relief operation abroad (Operation Maitri).
- **Cultural Ties:** The leaders of the two countries have often noted the age-old '**roti beti**' relationship, which refers to cross-border marriages between people of the two countries.

#### Areas of Concerns between India & Nepal

- **Kalapani dispute:** The area is in India's control but Nepal claims the region because of historical reasons. The area is the largest territorial dispute between Nepal and India.

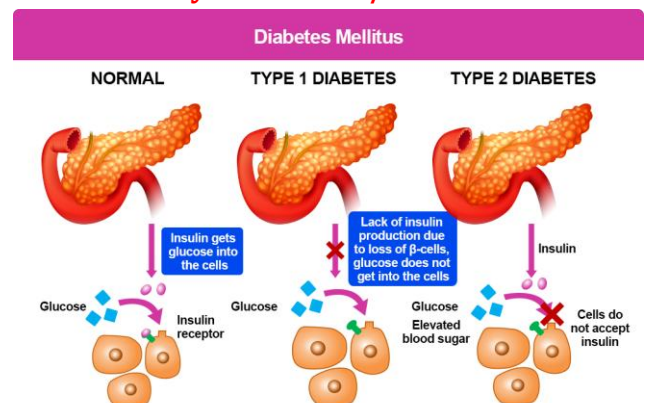
#### Context

- India and Nepal have amended the **Treaty of Transit to facilitate the movement of rail-based freight between Jogbani in India and Biratnagar in Nepal.**

#### India – Nepal Relations

- **Shared Border:** The country shares a border with five Indian states – Sikkim, West Bengal, Bihar, Uttar Pradesh and Uttarakhand.
- **India-Nepal Treaty of Peace and Friendship - Signed in 1950, it forms the special relations that exist between India and Nepal.**

#### Workplace Stress & Diabetes Syllabus: GS2/Health



### Context

- India has an estimated 10.1 crore people living with diabetes according to ICMR-INDIAB, 2023, and workplace stress may be one of the factors heightening this burden.
- World Diabetes Day is observed on November 14.

### Diabetes Burden in India

- India is often called the **diabetes capital of the world**.
- According to the ICMR-INDIAB Study, the **diabetic population** jumped from about 32 million in 2000, to almost **90 million adults in 2024**.
- Recent reports estimate that **1 in 9 Indian adults live with diabetes**

### Diabetes

- Diabetes is a **chronic metabolic disorder** in which the body either **does not produce enough insulin or cannot effectively use the insulin** it produces.
- This leads to **high levels of glucose (sugar) in the blood**.
- **Insulin:** Insulin is a **hormone produced by the pancreas**.
- It helps glucose (from food) enter cells, where it is used for energy.

### Types of Diabetes

- It is an autoimmune disease where the **body's immune system destroys insulin-producing cells**. The **body produces little or no insulin**.
- It usually **begins in childhood or adolescence**.
- It requires **lifelong insulin injections**.

### Type 2 Diabetes

- This is the **most common type of diabetes**. The body doesn't produce enough insulin.

- It is usually **linked to obesity, sedentary lifestyle, unhealthy diet and family history**.
- It can be managed with diet, exercise, oral medications, and sometimes insulin.

### Gestational Diabetes:

- This occurs **during pregnancy and usually disappears after delivery**, but increases the risk of type 2 diabetes later in life.

## Hepatitis A

### Syllabus: GS2/Health

### Types of Hepatitis

	TRANSMISSION	PREVENTION	TREATMENT
Hepatitis A	Eating contaminated food or drinking contaminated water	<ul style="list-style-type: none"> <li>• Practicing good hygiene</li> <li>• Vaccine</li> </ul>	No treatment
Hepatitis B	Through contact with the blood or bodily fluids of an infected person	<ul style="list-style-type: none"> <li>• Practicing good hygiene</li> <li>• Vaccine</li> <li>• Blood screening</li> </ul>	<ul style="list-style-type: none"> <li>• Alpha interferon</li> <li>• Peginterferon</li> </ul>
Hepatitis C	Blood-to-blood contact	<ul style="list-style-type: none"> <li>• Practicing good hygiene</li> <li>• Avoid sharing needles, toothbrushes, razors or nail scissors</li> </ul>	Direct-acting antiviral drugs
Hepatitis D	Contact with infected blood (only occurs in people already infected with hepatitis B)	<ul style="list-style-type: none"> <li>• Hepatitis B vaccine</li> <li>• Avoid sharing needles, toothbrushes, razors or nail scissors</li> </ul>	Interferon
Hepatitis E	Eating contaminated food or drinking contaminated water	<ul style="list-style-type: none"> <li>• Practicing good hygiene</li> <li>• Avoid drinking water that has come from a potentially unsafe source</li> </ul>	No treatment

### Context

- As India debates the inclusion of the typhoid conjugate vaccine in its Universal Immunisation Programme, it raises the question whether Hepatitis A deserves a priority for inclusion.

### Hepatitis

- Hepatitis is an **inflammation of the liver**. There are **five main strains** of the hepatitis virus, referred to as types **A, B, C, D and E**.

- **Types B and C lead to chronic disease** and together are the most common cause of **liver cirrhosis, liver cancer** and viral hepatitis-related deaths.

#### Hepatitis A:

- It is caused by the **Hepatitis A Virus (HAV)**. It **does not cause chronic infection** and is usually self-limiting.
- It **spread** through **contaminated food and water (fecal-oral route)**.
- It is entirely **preventable** where vaccines offer protection rates exceeding 90 to 95%.

#### Hepatitis B:

- It is known to cause **acute infection, liver failure happens in severe cases**.
- **Spread:** Spread through **blood and body fluids, sexual contact, mother-to-child transmission**.
- **Treatment:** Hepatitis B can be **prevented with a vaccine**, providing nearly 100% protection against the virus. The vaccine is usually given soon after birth with boosters a few weeks later.

#### Hepatitis C:

- The severity from a **mild illness to a serious, lifelong illness including liver cirrhosis and cancer**.
- **Spread:** The hepatitis C virus is a **bloodborne virus and most infections occur through exposure to blood from unsafe injection practices**.
- **Treatment:** **Direct-acting antiviral medicines (DAAs)** can cure more than 95% of persons, there is currently **no effective vaccine against hepatitis C**.

#### Hepatitis D:

- It **only affects people who are already infected with hepatitis B**, as it **needs the hepatitis B virus to be able to survive in the body**.

- It is usually spread through **blood-to-blood contact or sexual contact**.
- There's **no vaccine specifically for hepatitis D**, but the **hepatitis B vaccine can prevent it**.

#### Hepatitis E:

- It is generally a **mild and short-term infection that does not require any treatment**, but it can be serious with a weakened immune system.
- **There's no vaccine for hepatitis E**.

### Rheumatoid Arthritis

**Syllabus: GS2/Health; GS3/Science and Tech**



#### Context

- A new study in which researchers mapped the hidden preclinical evolution of rheumatoid arthritis.

#### Rheumatoid Arthritis (RA)

- It is a **chronic autoimmune disease in which the immune system mistakenly attacks the joints**.
- **Age & Gender Pattern:** It commonly affects individuals **between 30-60 years**. **Women are three times more likely to develop RA than men**.
- **Causes and Risk Factors:** The exact cause remains unclear. Likely contributors include – **genetic factors, hormones, and**

environmental triggers such as smoking or certain infections.

- **Systemic Nature:** It is a systemic disease, affecting not just joints but also lungs, heart, eyes, skin, nerves, and blood vessels.
- Persistent inflammation increases the **risk of heart disease** and contributes to **fatigue, fever, and depression.**
- **Treatment and Management:** It is **not curable**, but early diagnosis and timely management **can; reduce symptoms, slow disease progression, and prevent long-term disability.**

### **Saranda Forest** **Syllabus: GS3/Environment**



#### **In News**

- The Supreme Court directed the Jharkhand government to declare the ecologically rich Saranda forest as a wildlife sanctuary.

#### **Saranda Forest**

- **Location - Jharkhand**
- It is Asia's largest Sal (*Shorea robusta*) forest, spanning approximately 820-900 square kilometers.
- It is famously called the “**land of seven hundred hills,**” reflecting its hilly terrain.
- The forest is **part of the Chhotanagpur bio-geographic zone** and forms a natural landscape **continuum with forests of Odisha and Chhattisgarh.**

- **Species -** It is home to critically endangered species, including the endemic **sal forest tortoise, four-horned antelope, Asian palm civet, and wild elephants.**
- **Tribes -** It has been inhabited by the **Ho, Munda, Uraon and allied Adivasi communities**
- It also accounts for **26% of India's iron ore reserves.**

### **Revisit NEMMP 2020 to Promote Electric Vehicles**

#### **Syllabus: GS3/Environment**

#### **In News**

- Recently, the Supreme Court suggested revisiting the National Electric Mobility Mission Plan (NEMMP) 2020 amid escalating air pollution in Delhi.

#### **National Electric Mobility Mission Plan (NEMMP) 2020**

- It is a National Mission document providing the vision and the roadmap for the **faster adoption of electric vehicles and their manufacturing in the country.**
- **Faster Adoption and Manufacturing of (Hybrid &) Electric Vehicles in India (FAME India) Scheme** formulated in 2015 under NEMMP by Ministry of Heavy Industries.
- It aims to promote **adoption of electric/hybrid vehicles (xEVs) in India.**

### **Mudh-Nyoma Airbase** **Syllabus: GS3/ Defence**



### In News

- The Chief of the Air Staff inaugurated the Mudh-Nyoma airbase in Ladakh.

### Mudh-Nyoma Airbase

- The airbase is situated in Nyoma, Leh district of Ladakh, at an altitude of 13,700 feet (4,200 m), making it one of the world's highest fighter-capable airfields.
- Construction was led by the Border Roads Organisation.
- Its proximity to the LAC gives India critical tactical and logistical advantages, enabling quick response, force projection, and enhanced surveillance in sensitive sectors like Depsang Plains, Pangong Tso, and Chushul Valley.

### Rift Valley Fever Syllabus: GS2/ Health

### In News

- The World Health Organization (WHO) confirmed an outbreak of Rift Valley Fever (RVF) affecting Mauritania and Senegal in Western Africa.

### Rift Valley Fever (RVF)

- RVF derives its name from Kenya's Rift Valley, where the disease was first recognised in the early 1930s.

- **Pathogen** - It is caused by a **Phlebovirus** belonging to the Phenuiviridae family.
- It primarily affects animals such as **sheep, goats, cattle, and camels**.
- **Transmission** - **Humans become infected through close contact with infected animals** or by the bite of infected mosquitoes.
- There is **no evidence of human-to-human transmission**.
- Currently, there is **no specific antiviral treatment**.

### Molasses Syllabus: GS3/Economy



### Context

- The Central government is looking to permit around 1.5 million tonnes of sugar exports in 2025-26 and abolish the 50% export tax on molasses to improve realisations and help farmers receive faster payments.

### Molasses

- Molasses is a **thick, dark brown syrup** obtained as a byproduct during the process of refining sugarcane or sugar beet into sugar.

### Uses

- **Food industry:** Used in **baking (e.g., gingerbread), rum production, and animal feed**.

- **Industrial use:** In ethanol, citric acid, and yeast production.
- **Agriculture:** As a component in cattle feed and for soil conditioning.
- It is a key raw material for ethanol production under India's ethanol blending programme to reduce crude oil imports.

### **Periodic Labour Force Survey (PLFS) Report** **Syllabus: GS3/Economy**

#### **Context**

- The Periodic Labour Force Survey (PLFS) was conducted by the Labour Bureau for the July-September 2025 quarter.

### **Periodic Labour Force Survey (PLFS) Report**

- **Unemployment Rate:** Overall it dropped to 5.2% in July-September, 2025 from 5.4% in the previous quarter.
1. Rural: It declined to 4.4% during the period from 4.8%.
  2. Urban: Increased from 6.1% to 6.2% for males, and from 8.9% to 9.0% for females.

#### **Employment Pattern:**

- **Rural areas:** Dominated by self-employment – increased to 62.8% (from 60.7%). Majority engaged in the agriculture sector – 57.7% (up from 53.5%), due to seasonal operations.
- **Urban areas:** Regular wage/salaried employment rose slightly to 49.8% (from 49.4%). The workforce was concentrated in the tertiary sector – 62.0% (up from 61.7%).

#### **Labour Force Participation Rate (LFPR):**

1. **Overall LFPR: 55.1% (steady from 55.0% last quarter).**
2. **Rural LFPR: 57.2% (up from 57.1%).**
3. **Urban LFPR: 50.7% (up from 50.6%).**
4. **Female LFPR: Increased to 33.7% (from 33.4%).**

5. **Rural female LFPR: 37.5% (up from 37.0%).**
- **Worker Population Ratio (WPR):** For persons of age 15 years and above in the country during the quarter was 52.2%.
  - In rural areas, WPR was 54.7% as compared to WPR of 47.2% recorded in urban areas for the same quarter.

### **Ricin**

### **Syllabus: GS3/ Science & Technology**

#### **In News**

- The Gujarat Anti-Terrorism Squad (ATS) foiled an alleged terror plot and arrested men with suspected links to terrorism who were reportedly attempting to produce Ricin chemical

#### **Ricin**

- Ricin is a **highly toxic protein extracted from the castor bean plant** (*Ricinus communis*).
- It **blocks protein synthesis in cells, causing multiple organ failure and death within hours** of exposure.
- It is listed under Schedule-1 of the Chemical Weapons Convention (CWC).
- There is no known antidote for Ricin poisoning.

### **Chemical Weapons Convention**

- **Mandate** - It is an international treaty aimed at eliminating the production, stockpiling, and use of chemical weapons and their precursors.
- **Adoption and Enforcement** - The Treaty was adopted on September 3, 1992, and entered into force on April 29, 1997.
- **Member countries** - It currently has 193 member states.
- **Legally binding** - It makes it mandatory to destroy old and abandoned chemical weapons.

- **India's ratification** - India signed the treaty in January 1993.

### India's efforts

- **National Authority Chemical Weapons Convention (NACWC)** is the national authority responsible for implementing the Convention in India.

### Booker Prize 2025

#### Syllabus: Awards/ Miscellaneous



### Context

- **David Szalay won this year's Booker Prize for fiction for his novel 'Flesh,' is the first Hungarian-British author to win the Booker Prize.**

### Booker Prize 2025

- It is a **prestigious literary award** conferred every year for the best fiction **written in the English language & published in the United Kingdom and/or Ireland.**
- **Launch:** It was **first awarded in 1969** to promote reading and literature.

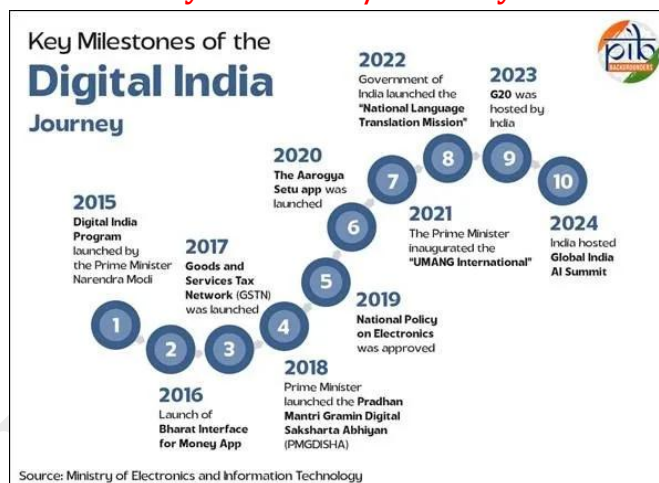
### Indian Winners -

1. VS Naipaul in 1971 for In A Free State,
2. Salman Rushdie for Midnight's Children in 1981,
3. Arundhati Roy for The God of Small Things (1997),
4. Kiran Desai for The Inheritance of Loss (2006),
5. Aravind Adiga for The White Tiger (2008).

6. Geetanjali Shree for her Hindi novel, Tomb of Sand(2022)
- **Note - In 2025, Banu Mushtaq and Deepa Bhashi won it for the translated anthology of Mushtaq's short stories from Kannada into English, Heart Lamp.**

### Nine Years After Demonetisation

#### Syllabus: GS3/Economy



### Context

- **Currency with the public has more than doubled since the demonetisation in 2016 was announced by the government.**

### Demonetisation

- The Prime Minister announced demonetisation on **November 8, 2016.**
- It declared that all existing **Rs 500 and Rs 1,000 notes** which together accounted for about **86% of the currency in circulation would cease to be legal tender.**
- Demonetisation in 2016 was apparently intended to **eliminate black money, curb counterfeit currency, promote digital payments and formalise the economy.**

### Aditya-L1 Mission Tracks Coronal Mass Ejections (CMEs)

#### Syllabus: GS3/Space

### In News

- Scientists from the Indian Institute of Astrophysics and NASA have made the first-ever spectroscopic observations of a coronal

mass ejection (CME) in the visible wavelength range, close to the Sun's surface using the VELC payload on Aditya-L1.

### Aditya-L1 mission

- **Uniqueness** - Aditya-L1 is the **first space-based Indian observatory to study the Sun. It will be launched by the PSLV-C57.**
- **Note** - The solar mission will not see the spacecraft actually go to the sun, it will instead create a space observatory at a point from which the sun can be observed even during an eclipse.
- The spacecraft is planned to be placed in a halo orbit around the Lagrange point 1 (L1), around 1.5 million km from the Earth, of the Sun-Earth system.

### Major objectives of the mission

- The mission will focus on study of the **Solar upper atmospheric (chromosphere and corona) dynamics.**
- It will also identify what drives space weather, along with the origin, composition and dynamics of the solar wind.

### Other missions to Sun

- **NASA's Parker Solar Probe, launched in 2018,** has already gone far closer — but it will be looking away from the Sun.
- **Helios 2 solar probe,** a joint venture between **NASA and the space agency of erstwhile West Germany,** was launched to investigate solar processes of the Sun's surface in **1976.**

### GI Tag Fee Cut

**Syllabus: GS3/Economy**

### In News

- **Recently, the Government announced a reduction in the GI tag application fee from ₹5,000 to ₹1,000, encouraging tribal artisans to protect traditional crafts.**

### GI Tag Fee Cut

- **GI tag certificates distributed for crafts and products like**

#### 1. Kannadippaya (Kerala)



#### 2. Apatani textile (Arunachal)



#### 3. Marthandam honey (Tamil Nadu)



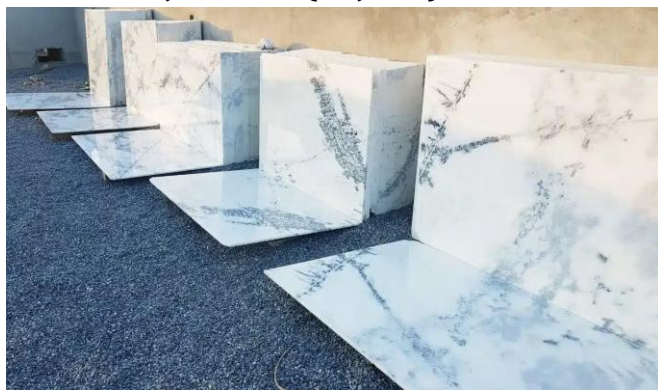
#### 4. Lepcha Tungbuk (Sikkim)



#### 5. Bodo Aronai (Assam)



#### 6. Ambaji Marble (Gujarat)



#### 7. Badri cow ghee (Uttarakhand).



### Connect with the basics - Geographical Indication or GI Tag

- It is a name or a sign given to certain products related to a specific geographical location or origins like a region, town, or country.
- **A certification for unique products** - GI Tag may be regarded as a certification for a particular product with certain specific qualities or has a specific reputation because of its geographical origin.
- **GI Tags can be issued** for wine and spirit drinks, foodstuffs, agricultural products, handicrafts, and industrial products.
- **Trade-Related Aspects of Intellectual Property Rights (TRIPS)** - At the International level, GI is governed by the World Trade Organisation's (WTO's) Agreement on Trade-Related Aspects of Intellectual Property Rights (TRIPS).
- **Geographical Indications of Goods (Registration and Protection) Act** - In India, Geographical Indications registration is administered by the Geographical Indications of Goods (Registration and Protection) Act, 1999, which came into force in September 2003.
- **Darjeeling tea** - The first product in India to be accorded with the GI tag was Darjeeling tea in 2004-05.

### Climate Risk Index (CRI) 2026 Syllabus: GS3/Disaster Management

#### Context

- The new Climate Risk Index (CRI) 2026 report has been released by Germanwatch.
- The analysis was presented at the ongoing COP30 in Belem, Brazil.

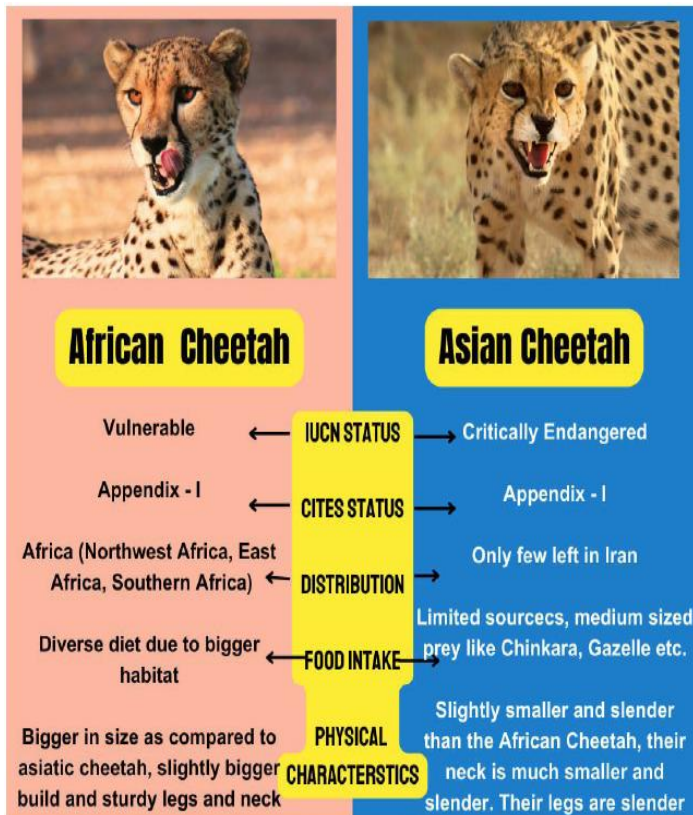
#### Key Findings

- India was **ninth on the list of countries most affected by extreme weather events** between 1995 and 2024.

- In the last three decades, **India faced around 430 extreme weather events** which resulted in inflation-adjusted losses of around \$170 billion.
- **Most People Affected: India ranked third** behind Bangladesh and the Philippines.

### India, Botswana Cheetah Translocation Pact

Syllabus: GS3/ Environment



#### In News

- **India and Botswana formally announced the translocation of eight Cheetahs to India as a part of 'Project Cheetah'.**

#### About

- India declared the cheetah **extinct in 1952**, after decades of **over-hunting, habitat fragmentation, and depletion of prey species.**
- The launch of **Project Cheetah in 2022** and the **arrival of cheetahs from Namibia and South Africa** created the **world's first intercontinental relocation programme for a large carnivore.**

- **Botswana** - It's a landlocked country with nearly 70% of its landmass covered by the Kalahari Desert, and holds **one of the world's largest wild cheetah populations.**

#### Project Cheetah

- **Overview:** Project Cheetah is **India's ambitious attempt to reintroduce the cheetah in suitable open forest and grassland ecosystems.**
- **Launched By:** **National Tiger Conservation Authority (NTCA)**, a statutory body under the **Wildlife (Protection) Act, 1972 (amended 2006).**
- **Uniqueness** - **It is the world's first intercontinental translocation of a large wild carnivore.**

#### Translocations So Far:

- 8 cheetahs from Namibia in 2022
- 12 cheetahs from South Africa in 2023
- 8 cheetahs from Botswana (2025 announcement)

#### Cheetah (*Acinonyx jubatus*)

- It is the **world's fastest mammal** and the **only large carnivore to have gone extinct in India (1952).**
- **Unlike other big cats, cheetahs do not roar.**
- There are two main species: the **African cheetah (Vulnerable)** and the **Asiatic cheetah (Critically Endangered)**, found only in eastern Iran and parts of Africa.

## PM Visit to Bhutan

### Syllabus: GS2/IR



- **Treaty of Friendship** - The basic framework of India Bhutan relations is the **Treaty of Friendship and Cooperation** signed in 1949 and was renewed in February 2007.
- **Four major bilateral projects are launched in Bhutan from India,**
  1. **Hydroelectric projects - Punatsangchhu and Mangdechhu Hydro Project,**
  2. **Ground Earth Station of ISRO**
  3. **RuPay Card**
  4. **National Knowledge Network of India**
- **Economy** - India is Bhutan's top trade partner both as an import source and as an export destination.
- **Bhutan became the second country to launch the BHIM app.**
- **Cultural and Buddhist Links:** A number of Bhutanese pilgrims travel to **Bodh Gaya, Rajgir, Nalanda, Sikkim, Udayagiri, and other Buddhist sites in India**

## Urban Cooperative Banks

### Syllabus: GS3/Economy

#### Context

- Recently, the Union Home and Cooperation Minister, at the 'Co-op Kumbh 2025', called on Urban Cooperative Banks (UCBs) to play a transformative role in empowering India's youth and underprivileged communities.

#### Key Highlights of Co-op Kumbh 2025

- **'Delhi Declaration 2025':** It was adopted by the National Federation of Urban Cooperative Banks and Credit Societies (NAFCUB), focusing on **enhancing financial stability, governance, and digitization within the cooperative banking network.**

#### Connect with the basics - Urban Cooperative Banks (UCBs)

- These are **financial institutions** primarily serving urban and semi-urban populations.

#### Context

- **Prime Minister Narendra Modi's recent visit to Bhutan strengthened the special ties of friendship and cooperation between the two countries.**

#### Key Outcomes

- Inauguration of **1020 MW Punatsangchhu-II Hydroelectric Project** constructed under a bilateral agreement between both Nations.

#### India-Bhutan Relations

- **Geographical Connection:** Bhutan shares its border with four Indian states, **Assam, Arunachal Pradesh, West Bengal and Sikkim** with a length of **699 km** and serves as a buffer between India and China.
- **Diplomatic relations** - Established in **1968.**

- **Principles of cooperation** - mutual help, democratic decision making and open membership, unlike commercial banks.
- **Significance** - They cater to **small businesses, salaried individuals, and lower-income groups, offering banking services such as deposits, loans, and credit facilities.**
- They play a vital role in **promoting inclusive economic growth, supporting small traders, entrepreneurs, and the weaker sections of society.**

**Dumpsite Remediation Accelerator Programme (DRAP)**  
**Syllabus:GS2/Governance**

In News

- **The Dumpsite Remediation Accelerator Programme (DRAP) has been launched by the Ministry of Housing and Urban Affairs (MoHUA).**

**Basic terms - Remediation vs Bioremediation**

- **Remediation** is the broad process of removing or containing environmental contaminants.
- **Bioremediation** is a sub-category of remediation that **employs microorganisms like bacteria and fungi to degrade or transform pollutants**

**Dumpsite Remediation Accelerator Programme (DRAP)**

- It aims to **fast-track the remediation of remaining dumpsites** and reclaim valuable urban land for community and infrastructure development
- It helps in achieving **India's vision of achieving "Lakshya Zero Dumpsites" by September 2026.**

**Lucifer Bee**  
**Syllabus: GS3/Species in News**



**Context**

- **Australian scientists have discovered a new native bee species named Lucifer.**

**About**

- The new species - **dubbed Megachile (Hackeriapis) Lucifer** - was first discovered in 2019 in the state of Western Australia.
- **Australia has around 2,000 native bee species, more than 300 of which are yet to be scientifically named and described.**
- The highly distinctive, **upward-pointing horns on the female bee's face inspired its name.**
- Interestingly, the species' male bees lack the horns.

**Gaganyaan Mission**  
**Syllabus: GS3/Space**



Vyommitra: India's First Spacefaring Robot

**In News**

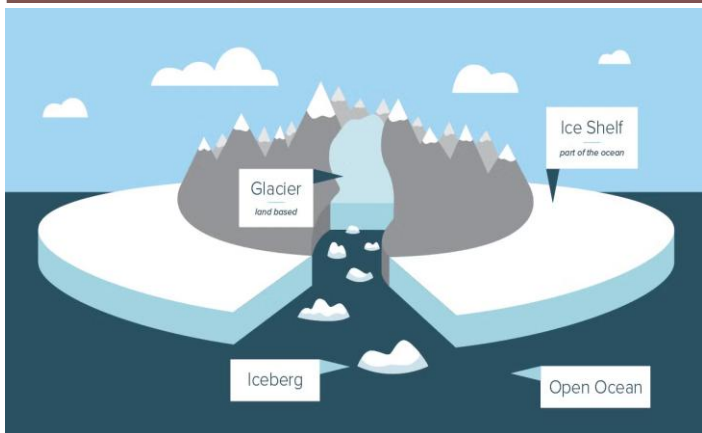
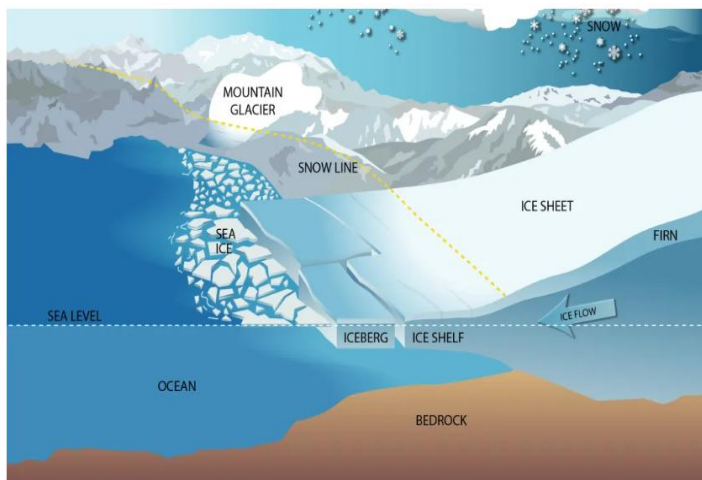
- **ISRO successfully conducted a critical parachute test for its upcoming human spaceflight mission, Gaganyaan.**

- ISRO will next conduct **three uncrewed flights with Vyomitra, a half-humanoid robot**, aiming for a crewed mission by early 2027.

### Gaganyaan Mission

- **Approved in - December 2018.**
- **Financial outlay - ₹20,193 crore.**
- **Uniqueness - It is India's first indigenous human spaceflight initiative.**
- **Objective - It aims to demonstrate India's human spaceflight capability by sending a crew to 400 km low-Earth orbit for three days, with a safe return and sea landing in Indian waters.**
- **Launch vehicle - LVM3 rocket**, is identified as the launch vehicle for Gaganyaan mission.

### International Cryosphere Climate Initiative Syllabus: GS3/ Environment



In News

- The “2025 State of the Cryosphere Report” underscores that Earth’s glaciers and ice sheets are rapidly melting.

### Connect with the basics - Cryosphere

- The cryosphere is the part of the Earth’s climate system that includes solid precipitation, snow, sea ice, lake and river ice, icebergs, glaciers and ice caps, ice sheets, ice shelves, permafrost, and seasonally frozen ground.
- The term “cryosphere” traces its origins to the Greek word ‘kryos’ for frost or ice cold.
- The cryosphere extends globally not just in the Arctic, Antarctic, and mountain regions, and in approximately one hundred countries.
- The largest continental ice sheets are found in Antarctica.
- Approximately 70% of the Earth’s freshwater exists as snow or ice.

### National Water Awards 2024 Syllabus: Miscellaneous

#### Context

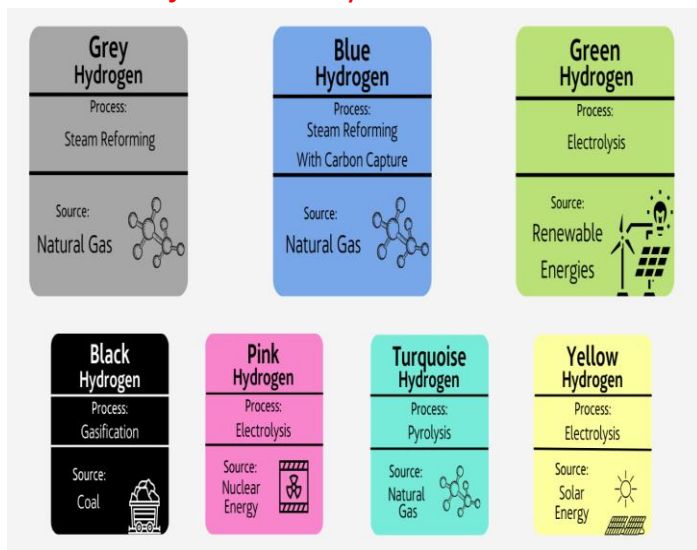
- Maharashtra has secured the first position in the Best State category of the 6th National Water Awards for 2024.
- Gujarat and Haryana have been placed second and third respectively.

### National Water Awards 2024 National Water Awards

- The National Water Awards were first launched in 2018.
- **Objective - The awards aim to recognize efforts in water management and conservation.**
- **Significance - The initiative supports the government’s vision of a ‘Jal Samridh Bharat’ (Water Prosperous India).**

### 3rd International Conference on Green Hydrogen (ICGH 2025)

Syllabus: GS3/Environment



### Additional Information - Hydrogen

- **Symbol and Atomic number** - Hydrogen is the chemical element with the **symbol H** and **atomic number 1**.
- Hydrogen is the **lightest element and the most abundant chemical substance in the universe**, constituting roughly 75% of all normal matter.
- It is **colorless, odorless, tasteless, non-toxic, and highly combustible gas**.

### In News

- **At the 3rd International Conference on Green Hydrogen, the Union Minister for New & Renewable Energy highlighted the National Green Hydrogen Mission (NGHM) as a catalyst for India's clean energy transition in green hydrogen.**

### Green Hydrogen

- **Green Hydrogen:** It is produced using electrolysis of water with electricity generated by renewable energy.
- **Benefit:** It is a clean burning element that can decarbonise a range of sectors including iron and steel, chemicals, and transportation.
- Hydrogen can be stored for long periods of time which can be used to produce electricity using fuel cells.

### National Green Hydrogen Mission

- **Aim:** To make India a **global hub for the production of green hydrogen**.
- **Implementing Ministry:** Ministry of New and Renewable Energy (MNRE)



ಕನ್ನಡ ರಾಜ್ಯೋತ್ಸವ ಶುಭಾಶಯಗಳು

# ಕೆ.ಪಿ.ಎಸ್.ಸಿ ಪ್ರಿಲಿಮ್ಸ್-ಕಮ್-ಮೇನ್ಸ್ 2025 ಬೆಂಗಳೂರು

**ಬ್ಯಾಚ್-07 : ಪ್ರಾರಂಭ 17ನೇ ನವೆಂಬರ 2025**
**ಆಫ್‌ಲೈನ್ [ಬೆಂಗಳೂರು]  
& ಆನ್‌ಲೈನ್**
**ತರಗತಿಯ ಮಾಧ್ಯಮ - ಇಂಗ್ಲಿಷ್ ಹಾಗೂ ಕನ್ನಡ**
**ಕಾರ್ಯಕ್ರಮದ ಅವಧಿ - 8 ರಿಂದ 9 ತಿಂಗಳು**
**ವೈಶಿಷ್ಟ್ಯಗಳು**


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ಪೂರ್ವಭಾವಿ ಮತ್ತು ಮುಖ್ಯಪರೀಕ್ಷೆಗೆ ಉಚಿತ ಟೆಸ್ಟ್ ಸರಣಿ



ಪ್ರತಿಯೊಬ್ಬರಿಗೂ ವೈಯಕ್ತಿಕ ಮಾರ್ಗದರ್ಶನ



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ಬ್ಯಾಚ್ - 3 ತರಬೇತಿ ಪ್ರಾರಂಭ 8ನೇ ಡಿಸೆಂಬರ್ 2025

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