

Current affairs summary for prelims

## 23 September, 2023

### **El Nino Weather Phenomenon**

**Context:** Peruvian President Dina Boluarte called for an international agreement to address El Nino's impacts while addressing world leaders at the United Nations General Assembly (UNGA).

#### What is El Nino?

- > The term "El Nino" originates from Spanish and means "little boy" or "Christ child."
- South American fishermen first identified this phenomenon in the early 17th century.
- El Nino events, characterized by warm Pacific Ocean waters, typically occurred in December, inspiring the name.
- > El Nino is a significant ocean-atmosphere climate interaction involving periodic warming in sea surface temperatures in the central and east-central Equatorial Pacific.
- It is often associated with high atmospheric pressure in the western Pacific.
- > El Nino has adverse effects on the Indian monsoons, impacting agriculture in India.

### Impact of El Nino on India

#### Normal Monsoon Year:

- Peru's coast has higher pressure compared to northern Australia and Southeast Asia.
- The Indian Ocean is warmer than neighboring oceans, creating relatively lower pressure.
- Moisture-laden winds move from the western Pacific towards the Indian Ocean.
- Lower land pressure in India draws these moist winds inland.

#### **El Nino's Impact:**

- El Nino warms the surface water off the Peruvian coast.
- Warm water disrupts or reverses the normal trade winds.
- Moisture-laden winds shift towards Peru from the western Pacific (near northern Australia and Southeast Asia).
- This leads to heavy rainfall in Peru during El Nino years.
- India experiences reduced monsoon rains during El Nino events.
- The greater the temperature and pressure differences, the more severe the rainfall shortage in India.



### La Nina Overview:

- "La Nina" translates to "little girl" in Spanish, also known as "El Viejo" or "cold event."
- Occurs when Eastern Pacific water temperatures become colder than usual.
- Results in strong high pressure over the eastern equatorial Pacific.
- Western Pacific and Asian regions experience low pressure.
- Effects of La Nina include drought in Peru and Ecuador, heavy floods in Australia, high temperatures in Western Pacific. Indian Ocean, and off the Somalian coast.
- La Nina tends to bring good monsoon rains to India, making it beneficial for Indian agriculture.

### Frequency and Duration:

- El Nino and La Nina events typically occur every 2-3 and 5-7 years, respectively.
- El Nino events are more frequent than La Nina.
- Typically, both El Nino and La Nina episodes last for nine to twelve months.

### Personality Right

Context: The Delhi High Court granted Anil Kapoor's requests for safeguarding his personality rights against unauthorized use by third parties.

### What is Personality Right?

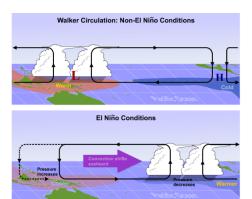
- Personality rights encompass a celebrity's name, voice, signature, images, or any recognizable features.
- These features, such as a unique pose or mannerism, are associated with a celebrity's identity.
- Some celebrities even register specific aspects as trademarks for commercial use.
- The core concept is that only the owner or creator of these distinctive features can profit from them commercially.
- > Exclusivity plays a significant role in attracting commercial opportunities for celebrities, and unauthorized use results in actual revenue loss.

### Legal Action for Protection

- Celebrities have the option to take legal action by approaching the court.
- They can seek an injunction against unauthorized third-party use of their personality rights for commercial purposes.
- This legal recourse helps protect their exclusive rights and potential earnings.

### Personality Rights in India

Personality rights in India are not explicitly defined in statute but are associated with the right to privacy and the right to property.











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- Legal protection for these rights is relatively new in India, with nascent development.
- Intellectual property concepts like passing off and deception from trademark protection can be applied to determine if a celebrity should be safeguarded through an injunction.

### **Challenges for Celebrities:**

- Despite obtaining an injunction, it's challenging for celebrities to monitor and address all instances of misuse.
- Celebrities must issue takedown orders to online intermediaries like Google to remove unauthorized content.
- Legal processes involve significant costs but can be beneficial in comparison to the revenue loss suffered by the celebrity.

### What is Injunction by the Court?

- An injunction is a legal order issued by a court of equity.
- It is initiated by a complaining party (complainant) against a party named as a defendant.
- The injunction directs the defendant to refrain from certain actions or to prevent their agents or employees from taking specific actions.
- It is issued when the defendant is threatening or attempting to commit an unjust and inequitable act.
- The act in question must be injurious to the plaintiff, and its resolution cannot be adequately addressed through a standard
- In India, the law of injunction is primarily governed by the Specific Relief Act, 1963.
- Additionally, the Code of Civil Procedure, 1908, also plays a significant role in regulating injunctions within the legal framework.

## Types of Injunctions

#### **Temporary Injunction:**

- Temporary injunctions are issued for a specific duration or until further court orders are provided regarding the matter.
- They can be obtained at any stage of a trial and are governed by the Code of Civil Procedure (CPC), 1908.

### **Permanent Injunction:**

- A permanent injunction is granted by the court through a decree made during the hearing and based on the merits of
- Once such a decree is issued, the defendant is permanently prohibited from asserting a right or committing an act that would violate the plaintiff's rights.

## Statue of Oneness

Context: Madhya Pradesh Chief Minister unveiled a 108-foot-tall statue of the 8th-century spiritual leader Adi Shankaracharya in Omkareshwar town.

- The statue, known as the 'Statue of Oneness,' portrays Shankaracharva as a 12-year-old child during his visit to Omkareshwar.
- The statue weighs 100 tonnes and was conceptualized by an Indian team of artists, sculptors, and engineers.
- Metal casting took place in China's Nanchang city, and the idol was shipped to Mumbai in multiple batches.
- It is made of bronze with a composition of 88% copper, 4% zinc, and 8% tin, and its internal structure is constructed using high-quality steel.
- The statue's design was inspired by Raja Ravi Verma's depiction of Shankaracharya.

#### Adi Shakaracharya

- Also known as Adi Shankara, he was born on May 11, 788 AD, in Kaladi near Kochi, Kerala.
- He attained Samadhi at the age of 33 in Kedar Tirth.
- Adi Shankara was a devoted follower of Lord Shiva.

### **Philosophical Contributions:**

- He propagated the Doctrine of Advaita, emphasizing Monism.
- Adi Shankara wrote extensive commentaries in Sanskrit on the Vedic canon, including Upanishads, Brahma Sutras, and Bhagavad Gita.
- He held contrasting views with Buddhist philosophers.

### **Major Works:**

- Brahmasutrabhasya: A commentary on the Brahma Sutra.
- Bhajagovinda Stotra.
- Nirvana Shatakam.
- Various Prakaran Granths.

#### Revival of Hinduism:

- Played a significant role in revitalizing Hinduism in India, countering the rising popularity of Buddhism.
- Established four Mathas in different corners of India: Shingeri, Puri, Dwaraka, and Badrinath, dedicated to the propagation of Sanathana Dharma.

### Advaita Vedanta Philosophy:

Articulated a philosophy of radical nondualism rooted in ancient Upanishadic texts.









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- Advaita Vedanta emphasizes the concept of 'brahman' as the ultimate reality, transcending individuality and empirical
  plurality.
- According to this philosophy, one's self (atman) is fundamentally identical with brahman.
- The core tenet is that atman is pure non-intentional consciousness, nondual, infinite, and identical with brahman.

### **SDG Summit 2023**

Context: Leaders worldwide met in New York on September 18, 2023, for the High-level SDG Summit and pledged to ramp up efforts to achieve the SDGs by 2030.

- Global leaders convened for the UN SDG Summit on September 19, 2023, in New York.
  - They pledged to intensify efforts to achieve the Sustainable Development Goals (SDGs) by 2030.

### **Cost of Achieving SDGs**

- > UNCTAD analysis estimated the cost of SDG indicators related to sustainable food systems at \$6.1 trillion annually till 2030.
- This translates to \$1,383 per person per year.
- Shortfall in funding is hindering progress, with a \$328 billion annual gap for 48 developing countries.
- A 5.7% annual spending increase is required to bridge this gap.

### **Investment Needs by Category**

- Different SDG pathways have varying annual costs:
  - Gender Equality: \$6.4 trillion
     Food Systems: \$6.1 trillion
  - Education Transformation: \$5.9 trillion
  - Energy Transition: \$5.8 trillion
     Inclusive Digitization: \$5.6 trillion
  - Climate Change, Biodiversity Loss and Pollution: \$5.5 trillion
  - Social Protection and Decent Jobs: \$5.4 trillion

#### Interconnected Indicators

- The analysis considered interconnected SDG indicators across various goals.
- It identified synergies, showing how investment in one area can benefit multiple SDGs.

### **Global SDG Funding Gap**

- The annual SDG funding gap has increased from \$2.5 trillion before the pandemic to an estimated \$4.2 trillion.
- Leaders acknowledged the need for massive investments to attain SDGs.

### **Debt-for-Nature Swaps**

- Leaders advocated for scaling up debt swaps for SDGs, including those focused on climate and nature.
- Debt-for-nature swaps help heavily indebted developing countries address conservation by replacing debts with new loans with lower interest rates.
- Climate change and extreme weather events pose threats to SDG achievement.
- Energy transition, vital for SDGs, is projected to cost about \$5.8 trillion annually from 2023 to 2030.

#### **Other Key Outcomes**

- Leaders called for strengthening multilateral actions and coordination by all creditors.
- They recommitted to implementing the Paris Agreement and the Sendai Framework for Disaster Risk Reduction.
- Leaders urged for emergency course correction to hasten SDG progress and enhance global cooperation for sustainable development.

# SUSTAINABLE GOALS



























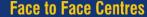
















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## **News in Between the Lines**

Recently, scientists achieved a breakthrough in the field of perovskite materials.

### What is Perovskite?

Perovskite is a class of materials known for their diverse properties like superconductivity and magnetoresistance.

Structure: Perovskite shares a crystal structure similar to calcium titanium oxide (CaTiO3) with a formula ABX3, where "A" and "B" are cations and "X" is anions.

Discovery: Gustav Rose discovered Perovskite in the Ural Mountains of Russia in 1839, named after Lev Perovski.

Flexibility: Scientists can customize perovskite crystals to have various physical, optical, and electrical properties.

Optical Properties: Perovskites efficiently absorb and emit light across a wide range of wavelengths, making them suitable for solar cells and light-emitting devices.

Applications: Perovskite finds use in sensors, fuel cells, solar cells, lasers, memory devices and spintronics.

Solar Cells: Perovskite solar cells are particularly notable for their potential as low-cost, high-efficiency photovoltaic materials. Recently, the Supreme Court declined a plea for an independent audit of the 'source code' of the Electronic

# **Electronic Voting**

**Perovskite** 

# **Machine**

### Voting Machine (EVM) system. What is Electronic Voting Machine?

- Electronic Voting Machine (EVM) is an electronic device used in elections to cast and count votes.
- It consists of two units: the Control unit and the Balloting unit, connected by a cable.

Control Unit: The Control unit is with the presiding or polling officer to verify voters' identity.

Balloting Unit: It is placed in voting compartments, displays candidate names and symbols with voting buttons. **EVM** in India:

- Indian EVMs were developed in 1989 by the Election Commission in collaboration with Bharat Electronics Limited and Electronics Corporation of India Limited.
- They were first used in a limited capacity in 1982 and for general elections in Goa in 1999.

## **Central Water Commission**



According to the Central Water Commission, the levels in India's 150 major reservoirs are currently below the 10-year average and lower than the same period last year.

What is the Central Water Commission (CWC)? Central Water Commission (CWC) is a prominent technical organization in India specializing in Water Resources.

Administrative Status: It currently operates as an attached office of the Ministry of Jal Shakti, Department of Water Resources, River Development and Ganga Rejuvenation, Government of India. **Functions:** 

- CWC is responsible for initiating, coordinating, and advancing schemes related to water resource control, conservation, and utilization across India.
- These schemes encompass Flood Control, Irrigation, Navigation, Drinking Water Supply and Water Power Development.
- CWC also conducts investigations, construction and execution of relevant projects.

Leadership: The Commission is led by a Chairman, holding the status of Ex-Officio Secretary to the Government of India.

### Remission



Recently the Supreme Court supports remission for convicts who demonstrate reformation after a prolonged period of incarceration. What is Remission? Remission involves reducing the duration of a sentence without altering its nature.

Basis for Remission: Remission is typically granted based on factors like good conduct, reformation, and health considerations

Constitutional Provisions: Articles 72 and 161 of the Indian Constitution empower the President and Governor, respectively, to pardon, suspend, remit or commute sentences.

Legal Framework: The Criminal Procedure Code (CrPC), specifically Sections 432 to 435, outlines the procedure for granting remission.

Rashtriya Vigyan Puraskar



Recently, the Government of India introduced "Rashtriya Vigyan Puraskar," a set of National Awards in the field of science, technology and innovation.

Objectives: Recognize exceptional work by scientists, technologists and innovators, including teams, in

Eligibility: Open to individuals and teams from various sectors, including those of Indian origin abroad.

Categories: Awards include lifetime achievements (VR), distinguished contributions (VS), young scientists (VY-SSB) and team efforts (VT).

Domains: Recognizes excellence in 13 domains, spanning physics, chemistry, medicine, engineering, and

Selection: A committee headed by the Principal Scientific Adviser reviews nominations annually.

Timeline: Nominations open on January 14, National Science Day, and close on February 28. Awards announced on May 11, National Technology Day, with the ceremony on August 23, National Space Day. Recognition: Awardees receive a certificate and a medal, and these awards hold equal stature with other National Awards.

### **Face to Face Centres**





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### **Asteroid Bennu**



Recently, NASA's Osiris-Rex mission is set to return to Earth, carrying a sample of dust collected from asteroid

Asteroid Bennu: Bennu is a near-Earth asteroid, which means its orbit brings it close to Earth's path.

Characteristics: It is a mountain-sized space rock, approximately 500 meters (1,640 feet) wide.

Scientific Significance: Bennu is of great interest to scientists as it holds clues about the origins of Earth and

Water Content: It is believed to contain a significant amount of water, possibly up to 10% by weight, bound within its minerals.

Carbon Content: Bennu also contains about 5-10% carbon, a crucial element for organic chemistry and the potential development of life.

Recently, the Ukrainian missile hits Russia's Black Sea navy headquarters in Crimea.

Geographic Location: The Black Sea is a significant inland sea situated in southeastern Europe.

Bordering Countries: Black Sea shares its borders with Ukraine (north), Russia (northeast), Georgia (east), Turkey (south), Bulgaria (southwest) and Romania (west).

Connection to Mediterranean: It connects to the Mediterranean Sea via the Bosporus Strait, Sea of Marmara, and Dardanelles Strait.

Size: The Black Sea covers an area of approximately 436,000 square kilometers (168,000 square miles).

Freshwater Inflows: Several rivers, including the Danube, Dnieper and Dniester, provide freshwater inflows to the Black Sea, primarily in the northwestern coastal areas.



Black Sea

**Place in News** 

### **Limited Oxygen Levels:**

- The Black Sea's deeper waters have lower oxygen levels due to its unique geological and hydrological
- It is one of the world's largest anoxic basins, with areas characterized by very little dissolved oxygen. Islands: The Black Sea contains several islands, with the largest ones being Snake Island (Ukraine), Giresun Island (Turkey) and St. Ivan Island (Bulgaria).

## **POINTS TO PONDER**

- Who is the author of "Fiction and Beyond"? Ashokamitran (Sahitya Academy Award Winner)
- Under what section of the RBI Act 1934 does RBI mandate AIFIs to maintain a capital adequacy ratio (CAR)? -Section 45L ÷
- \* Where is the Permanent Secretariat of International Congress on the Chemistry of Cement (ICCC) located? - Dusseldorf, Germany
- Under which act is radio broadcasting covered in India? -Indian Wireless Telegraphy Act, 1933 \*
- Who is honored by the "Statue of Oneness" in Omkareshwar? Adi Shankaracharya





**Face to Face Centres**