






ECI signed MoU with Indian Banks' Association (IBA) and Department of Posts (DoP) to enhance voter outreach

- This is in continuation of the Election Commission of India's (ECI) efforts to enhance electoral awareness.
- Recently, ECI also signed an MoU with the Ministry of Education to integrate electoral literacy into the educational curriculum.
- **Systematic Voters' Education and Electoral Participation (SVEEP):** Flagship program of the ECI for voter education, spreading voter awareness, and promoting voter literacy in India.
- **Need for Voter Education in India**
 - ⊕ **Voter's Right:** SC in **People's Union for Civil Liberties v. UoI, (2003)**, held that voters have a **right under Article 19(1)(a)** to obtain information about candidates contesting elections.
 - ⊕ **Insufficient turnout:** Around 30 crore electors (out of 91 crore), did not cast their votes in the General Election to Lok Sabha 2019.
 - ⊕ **Inclusive democracy:** Critical in enhancing participation of women, youth, divyangs, marginalized sections, etc. in elections.
 - ⊕ **Informed and ethical voting:** Necessitated due to prevalence of misinformation, divisive propaganda, fake news, etc.
- **Steps required by ECI to promote voter education**
 - ⊕ **Promoting Critical thinking among voters** to move beyond voter turnout to uplift the quality of votes casted.
 - ⊕ Encouraging cooperation with **Civil Society Organisations(CSO)**. E.g CSOs can help voters inculcate practices of fact-checking.

Ensure women are granted permanent commission(PC) in the Indian Coast Guard: Supreme Court to centre

- PC means a **career in the defence forces till retirement**.
- **Importance of Women in Defence Forces**
 - ⊕ **Gender Equality and Inclusion:** It upholds the values of equality and allows equal, non-discriminatory opportunities at work in line with Article 14,15,16.
 - ⊕ **Talent Pool and Recruitment:** Women in the age of cyber warfare and digitally equipped weapons can handle weapons efficiently.
 - ⊕ **Role Models and Mentorship:** Women can inspire young girls to pursue careers in traditionally male-dominated fields.
 - ⊕ **Humanitarian and Peacekeeping Missions:** Women can connect local populations, especially in societies where cultural norms may limit interactions with male soldiers.
- **Challenges:** Gender Stereotypes and Bias, Physical Standards, Discrimination and Harassment, etc.
- **Background of Women in Defence Force**
 - ⊕ In 1888, the role of women in the Indian army began in "**Indian Military Nursing Service**"
 - ⊕ **Army Act, 1950 prohibited the recruitment of females** into the army.
 - ⊕ In 1992, the Army, Air Force and Navy began **inducted women as Short Service Commission (SSC) officers** outside medical services.
 - ⊕ In 2020, the Supreme Court passed landmark judgment (**The Secretary, Ministry of Defence V. Babita Puniya & Ors.**) to grant PC to women.

	Indian Coast Guard	 New Delhi
	Genesis: Established in 1977	
	Ministry: Works as per the Coast Guard Act 1978, under the Ministry of Defence.	
	Mandate: Safety and protection of artificial Islands and offshore terminals <ul style="list-style-type: none"> ⊕ Assistance to Fishermen in distress ⊕ Preservation and protection of the marine environment ⊕ Assisting the Customs in anti-smuggling operations, safeguarding Exclusive Economic Zone (EEZ) etc. 	

13th Ministerial Conference (MC13) of the World Trade Organization (WTO) began in Abu Dhabi

- MC is the **topmost decision-making body of the WTO** and usually meets **every two years**.
 - ⊖ It brings together **all members (countries or customs unions) of the WTO**.
 - ⊖ It can decide on any matters under any of the **multilateral trade agreements**.
- **Key highlights of MC 13**
 - ⊖ **Comoros and Timor Leste acceded to WTO**.
 - ⊖ **India has opposed mixing non-trade topics (e.g. Gender, MSMEs) with WTO rules** as it can lead to **greater trade fragmentation**.
 - ◆ Additionally, such non-trade topics are already **under discussion in other relevant international organizations**.
 - ⊖ India also **expressed serious concerns** regarding **increasing use of trade protectionist unilateral measures** sought to be justified in the **guise of environmental protection**.
- **Other concerns of India associated with the WTO**

Issues	India's stand
Plurilateral agreements	<ul style="list-style-type: none"> ➤ India opposed China-led Investment Facilitation for Development Agreement (IFDA) proposal as: <ul style="list-style-type: none"> ⊖ investment falls outside the mandate of WTO, ⊖ India is against plurilateral pacts on multilateral platforms.
Public stockholding (PSH) programme	<ul style="list-style-type: none"> ➤ India wants a permanent solution for the PSH programme. <ul style="list-style-type: none"> ⊖ At present, developing countries' food subsidies are protected by the Bali peace clause (negotiated as a temporary solution).
Moratorium on customs duty on e-commerce	<ul style="list-style-type: none"> ➤ Since 1998, WTO countries have agreed to not impose customs duties on electronic transmissions covering both goods (such as e-books and music downloads) and services. ➤ India opposes extension of this moratorium as it benefits developed countries at the cost of developing countries.

First private sector facility for the manufacture of ammunition and missiles opened in Kanpur(UP)

- It is opened in the **Defence Industrial Corridor (DIC) of UP**.
 - ⊖ The other **defence corridor is in Tamil Nadu**.
- The Defence Industry sector was opened up to **100% for Indian private sector participation in 2001**.
- **Need for privatisation of the Defence sector:**
 - ⊖ India is **third largest military spender(after US and China)** and the **world's largest arms importer**, Stockholm International Peace Research Institute (SIPRI) Report.
 - ⊖ The share of the **defence budget can be reduced which stands at 13.04% of the total government expenditure**.
 - ⊖ **Surplus production** will boost defence exports and would help to achieve the set target of 35000 crore of exports by 2024-25.
- **Concerns:** security concerns like **protection of sensitive data at the hands of private companies; selling weapons to customers** who are not aligned with India's national interest; etc.
- **Government steps for promotion of indigenous Defence Production:**
 - ⊖ Priority to the **procurement of capital items from domestic sources** under **Defence Acquisition Procedure (DAP)-2020**.
 - ⊖ **Liberalization of Foreign Direct Investment(FDI) policy** by allowing **74% FDI under automatic route**.
 - ⊖ The launch of the **Innovations for Defence Excellence (iDEX) scheme**.
 - ⊖ **The SRIJAN portal to facilitate indigenisation by Indian Industry** including MSMEs.

Related News: **SAMAR (System for Advance Manufacturing Assessment and Rating) certification**

- **The Defence Research and Development Organisation (DRDO)** handed over **SAMAR assessment certificates** to nine Industry Partners.
- **About SAMAR**
 - ⊖ It is a **benchmark to measure the competency of defence manufacturing enterprises**.
 - ⊖ It is based on a **maturity assessment model** developed by the **Quality Council of India (QCI)**
 - ⊖ **Applicability: to all defence manufacturing enterprises**.
 - ⊖ **Validity: 2 years**.
 - ⊖ It's an outcome of the **collaboration between DRDO and QCI**.

SECI Commissioned India's largest Battery Energy Storage System (BESS) in Rajnandgaon, Chhattisgarh

- SECI's **40 MW/120 MWh BESS** will store solar energy when the sun is shining and using it later during hours of peak demand in the evening.
 - ⊕ It is funded by the **World Bank** and **Clean Technology Fund (CTF)** under Innovation in Solar Power & Hybrid Technologies (ISP&HT) Project.
- **About BESS**
 - ⊕ A **BESS** is an **electrochemical device** that **charges** (or collects energy) from the grid or a power plant and then **discharges** that energy at a later time to provide **electricity or other grid services when needed**.
 - ⊕ It is helpful in:
 - ◆ Improving **grid stability** enabling larger Renewable Energy (RE) integration
 - ◆ Bringing down peak deficits
 - ◆ Meeting **Renewable Purchase Obligations** (mandates discoms to purchases a minimum percentage of electricity from RE).
 - ◆ **Reduction of carbon emissions**
 - ⊕ **Initiatives to promote BESS**
 - ◆ Allowing BESS to participate in the **High Price Day Ahead Market (HP-DAM) segment** of the Energy Exchange.
 - ◆ **Viability Gap Funding (VGF) scheme** for development of 4,000 MWh of BESS projects by 2030-31
 - ◆ **Waiver of Inter-State Transmission Charges** on BESS Projects commissioned up to July 2025.
 - ◆ **National programme on Advanced Chemistry Cell (ACC) battery storage** for Gigascale.
 - ◆ **Bidding Guidelines** for BESS.

- **Clean Technology Fund (CTF)**
 - ⊕ **Proposed in 2008**.
 - ⊕ Seeks to promote **scaled-up financing** for demonstration, deployment and transfer of **low-carbon technologies** with significant **potential for long-term greenhouse gas emissions savings**.
 - ⊕ Funds projects in **developing countries**.
 - ⊕ **World Bank acts as Trustee** for the CTF.
- **ISP&HT**
 - ⊕ It seeks to demonstrate the **operational and economic feasibility** of utility scale innovative renewable energy technologies and **BESS**.

BharatGPT group led by IIT Bombay to launch 'Hanooman' a ChatGPT-like service

- Hanooman is a series of **large language models (LLMs)** that can respond in **various Indian languages like Hindi, Tamil, and Marathi**.
 - ⊕ It is expected to work in four fields, including **health care, governance, financial services, and education**.
- LLMs are **deep learning models that consume and train on massive datasets** to excel in **language processing tasks**.
 - ⊕ They create new combinations of text that **mimic natural language** based on its training data.
 - ⊕ The training data is usually large datasets **including Wikipedia and OpenWebText**.
- **Applications of LLM**
 - ⊕ **Medical:** For tasks like **protein structure prediction** that can uncover patterns in disease and predict outcomes.
 - ⊕ **Retail:** To provide **enhanced customer experiences** through **dynamic chatbots**.
 - ⊕ **Software:** To **write software** and **teach robots** how to do physical tasks.
 - ⊕ **Finance:** To **summarize earnings calls** and create transcripts of important meetings.
 - ⊕ **Marketing:** To organize customer feedback.
- **Challenges in developing LLM:** Significant capital investment, large datasets, technical expertise, and large-scale computing infrastructure necessary to develop and maintain LLMs.
 - ⊕ **Sourcing of quality datasets** in Indian languages is a major hurdle in developing LLM in Indian languages.

Generative Pretrained Transformer (GPT) vs LLM

- A **GPT is a type of LLM** that uses deep learning to generate human-like text.
- They are called
 - ⊕ "**generative**" because they can **generate new text** based on the input they receive,
 - ⊕ "**pretrained**" because they are **trained on a large corpus of text data** before being fine-tuned for specific tasks, and
 - ⊕ "**transformers**" because they **use a transformer based neural network** architecture to process input text and generate output text.

Also in News



Base Erosion and Profit Shifting (BEPS)

- Mauritius Government has decided to **amend the Double Taxation Avoidance Agreement (DTAA) with India** to comply with the BEPS minimum standards of the OECD.
 - ⊕ **DTAA** is a tax treaty signed between two countries for the elimination of double taxation.
- **BEPS refers to tax planning** used by **multinational enterprises** that exploit gaps and mismatches in tax rules to **avoid paying tax**.
 - ⊕ **OECD/G20 Inclusive Framework on BEPS** provides **15 Actions** that equip governments with the **domestic and international instruments** needed to tackle tax avoidance.



Investor Information and Analytics Platform (IIAP)

- Union Minister of State for Electronics and IT launched IIAP developed by IIT Madras.
- **About IIAP:**
 - ⊕ It will act as a **one-stop shop for startups** to seamlessly access Venture Capitalists (VCs) and investor networks, Govt schemes, etc.
 - ⊕ **Entrepreneurs can search for information on government agencies, incubators, investors, VCs, etc.**
 - ⊕ An important feature of the platform is "**StartupGPT**" which is an **AI-based conversational platform**.
 - ◆ It will **ease information access** for those who are navigating exhaustive data.



Political parties and Income tax

- Recently **Income-Tax department** has raised a **demand of ₹210 crore in penalty** from a national level political party for **discrepancy and delay in filing the returns.**
- **Section 13A of the IT Act, 1961, exempts political parties** (registered by Election Commission under Representation of the People Act, 1951) from paying income tax.
 - ⊕ For exemption parties must fulfil, **some conditions** including maintaining books of account and other documents, their accounts are audited as per the law, etc.
- However, **under Section 139 (4B) of the IT Act**, Political parties are **required to file their Income tax returns** if:
 - ⊕ Their **total income** (before exemptions under Section 13A) is **higher than the tax exemption threshold.**



Garbhini-GA2

- Translational Health Science and Technology Institute (THSTI) and IIT Madras researchers have developed:
 - ⊕ **India-specific model** to determine the age of a foetus in a pregnant woman in the **second and third trimesters precisely** known as Garbhini-GA2.
- **Garbhini-GA2** is a part of the Interdisciplinary Group for Advanced Research on Birth Outcomes –Department of Biotechnology (DBT) India Initiative (GARBH-Ini) program.
- **About (GARBH-Ini) program**
 - ⊕ It is a **cohort study of pregnant women** initiated in 2015.
 - ⊕ **Objectives:** to identify clinical, epidemiologic, genomic, and generate a risk-prediction algorithm for preterm birth.



Chromosomal disorder in ancient individuals

- Researchers have reported **Down syndrome** and **Edwards syndrome** from prehistoric skeletal remains, dating up to **approximately 5,500 years old.**
- Both are **trisomy disorders** wherein individuals have an **extra copy of the chromosome.**
 - ⊕ **Edwards syndrome:** An extra copy of chromosome 18 is present in the individual.
 - ◆ Most babies with Edwards' syndrome **will die before or shortly after being born.**
 - ⊕ **Down syndrome:** An extra copy of one of chromosome 21 is present.
 - ◆ Kids with down syndrome usually have an IQ in the **mildly-to-moderately low range** and are **slower to speak than other children.**



2024 Amendment to IT Rules, 2009

- Exercising power under the **Information Technology (IT) Act (2000)**, the Central Government Amended the **IT (Procedure and Safeguards for Interception, Monitoring and Decryption of Information) Rules, 2009.**
 - ⊕ Its Rule 23 mandated **every record**, including electronic records of **interception, monitoring or decryption** of information to **be destroyed every six months** except in a case where such information is required, or likely to be required.
 - ◆ So far, only **security agencies** had such power of destruction.
 - ◆ The 2024 Amendment also bestows this power to **"competent authority** (i.e., Union Home Secretary or Secretary in charge of Home Deptt. for States/UTs) in **addition to the security agency".**



Homosep Atom

- **India's first septic tank/manhole cleaning robot** known as Homosep atom developed by the startup Solinas reached 16 cities.
 - ⊕ Solinas was incubated in the **Department of Science and Technology (DST)-Technology Business Incubator (TBI)** of IIT Madras.
- **About Homosep Atom**
 - ⊕ Robotic solution **integrated with Artificial Intelligence (AI)** to inspect, clean, and manage confined space for sanitation purposes.
 - ⊕ **Features:** Extensive blade cleanings, solid waste desilting, suction, and storage at one device.
 - ⊕ Offers end-to-end **solutions to eliminate manual scavenging.**



Operation AMRITH (Antimicrobial Resistance Intervention for Total Health)

- Kerala initiated Operation AMRITH, a program enforcing H1 rule, mandating a doctor's prescription for acquiring any class of antibiotics.
- **About H1 rule:** The Drugs and Cosmetic Rule, 1945 was amended in 2013 to incorporate a new Schedule H1.
- **The Drugs falling under Schedule H1 are required to be sold in the country with the following conditions:-**
 - ⊕ The supply of a **drug shall be recorded in a separate register.**
 - ⊕ They shall be **labeled with the symbol Rx** which shall be in red and conspicuously displayed on the left top corner of the label.

Places in News



Hungary (Capital: Budapest)

- Hungary's parliament approved Sweden's NATO accession.
- **Political Features**
 - ⊕ **Landlocked country** in central Europe.
 - ⊕ Shares border with **Slovakia, Ukraine, Romania, Serbia, Croatia, Slovenia, and Austria.**
- **Geographical features**
 - ⊕ Relief is **dominated by great lowland expanses** including **Little Alfold** (Little Hungarian Plain) in Northwest and **Great Alfold** from southwest to northeast
 - ⊕ **Highest Peak:** Mount Kékes
 - ⊕ **Major Rivers:** Danube, Tisza, etc.
 - ⊕ **Lakes:** Lake Balaton, Neusiedler Lake etc.
 - ⊕ **Climate:** Moderately dry continental climate

