Regent Education and Research Foundation Group of Institutions Daily Current Affairs Synopsis

Date: 21st & 22nd Dec 2023

(Useful for UPSC/WBPSC/SSC Exams.)

- An EV is propelled by an electric motor, powered by rechargeable battery packs (refer to box).
 - Contrary to this an Internal Combustion Engine (ICE) generatespower by burning a mix of fuel and gases.

Key issues highlighted

- Frequent changes in EV policies create uncertainties in the market.
- Lowering targets under the FAME-II due to budgetary constraints.
 - FAME-II (under Ministry of Heavy Industries) focuses on supporting electrification of public & shared transportation.
- MoRTH issued guidelines to States to encourage EV adoption, lowering initial expenses.
 - Nevertheless, exemptions and rebates for road tax are currently available in only 19 states/UTs.
- ⊕ Lack of charging infrastructure and the overall time required to charge such batteries is a major hurdle in the adoption of EVs.

Recommendations

- Formulation of a stable **national policy on Electric Mobility.**
- Enhancement of budgetary allocation for e-Buses under FAME-IIand extend it for at least 3 more years (current tenure 2019-2024).
- - Women SHGs and Cooperative Societies may be assisted toopen and operate charging Stations.
- Establish dedicated Manufacturing Hubs and Industrial Parks for manufacturing of batteries, cells and EV auto components.
- Conduct a study regarding the **feasibility of battery standardisation**.

Types of EVs

- **Battery BEVs/ All EVs:** Run entirely on a **battery-powered electric** drive train.
- **Hybrid EVs (HEVs):** Involving both the **engine and electric motor**, the transmission rotates concurrently driven by bothpower sources.
- Plug-in HEVs: Encompasses both an engine and a motor but its battery pack is much larger when compared to otherHEVs. Fuel Cell Electric Vehicles: Referred to as Zero-Emission
- Vehicles, these vehicles utilize 'fuel cell technology' to
- generate electricity for propulsion.



International Organisation for Migration (IOM) launches Project PRAYAS

- The Project Promoting Regular Assisted Migration for Youth and Skilled Professionals (PRAYAS), was launched in partnership with Ministry of External Affairs (MEA) for the year 2023-24.
 - Objective: To facilitating safe, orderly, and regular migration for aspiring Indian migrant workers and students in collaboration with MEA, NITI Aayog, and State Governments.
 - Project will **promote dissemination of communication materials** on safe and orderly migration pathways.
 - India has a large diaspora with over 32 million spread across the globe (2021 Dec).
 - Also, India is the world's largest recipient of remittances.
- Problems faced by Indian diaspora abroad
 - \oplus Wage insecurity, casual work arrangements, lack of social protection and skills gap.
 - Poor working conditions, absence of a proper grievance redress mechanisms, and access to a transparent judicial system etc.
- Steps taken by India for diaspora
 - Pre-Departure Orientation Training is imparted to workers before they migrate.

 - MADAD Portal addresses grievances related to Indians in distress abroad.

- It is an annual award given by Exploration Museum in Iceland's Husavik. It is dedicated to the history of human exploration, from the early explorers to the exploration of space.
 - ⊕ It is named after the Icelandic explorer Leif Erikson who is considered the first European to land in North America.
 - The 2023 award celebrates first soft-landing of a spacecraft near lunar south-pole, which marked another major achievement for ISRO.

• About Indian Space Research Organisation (ISRO, HQ: Bengaluru)

- € Later, on August 15, 1969, ISRO superseded INCOSPAR and was subsequently brought under Dept of Space in 1972. Role of
- ISRO in nation-building
 - Earth Observation, Meteorological Satellite Systems: Supports disaster management, etc.
 - Communication Satellite Systems: INSAT satellites contributes significantly to socio-economic and strategic activities.
 - Navigation Systems: GPS Aided Geo Augmented Navigation (GAGAN) assists in civil aeronautical navigation.
 - Capacity Building: ISRO has transferred more than 363 technologies across India for commercialization, societal application, etc.
 - Space Science and Planetary Research Systems: Aditya-L1 project for understanding the Sun.
 - Space Transportation System: India has achieved self-reliance in space transportation capability via PSLV and GSLV.

World Bank releases its annual International Debt Report (IDR), 2023

> The report analyses external debt statistics for 122 low- and middleincome countries (LMICs).

Key highlights

- - Over 1/3rd of such debt carries variable interest rates, posing risk of sudden increases.
- - India's debt service was 2% of the GNI in 2022.
- Outflow of money: Due to a tighter monetary policy in advanced economies investors found attractive returns in US and European bond markets.
 - This led to a net outflow of US\$127.1 billion from LMICs.

Recommendations

- Portfolio analysis: Closely scrutinize terms of debt instruments to identify risks and costs.
- Debt buybacks: To reduce a country's stock of nominal debt if the debt is trading at a deep discount.
- ⊕ Debt exchanges: Swapping outstanding debt for new debt to lengthen the average maturity of the debt portfolio and reduce short-term maturities.
- ⊕ Debt-for-nature swaps: To combine debt relief to participating sovereigns with partial earmarking of the freed-up resources for green projects.

About external debt

- External debt refers to money borrowed from a source outside the country.
- It is a vital source to supplement the local revenue for development.

Centre reconstituted National Startup Advisory Council (NSAC); nominated nonofficial members

- Upon completion of the two-year term of the NSAC, the Central Government nominated **non-official members.**
- About NSAC
 - ⊕ Genesis: NSAC was notified in 2020 by Department for Promotion of Industry and Internal Trade, Ministry of Commerce and Industry.

 - - Non-official members include founders of successful startups, persons representing interests of investors, incubators and accelerators, etc.
 - Their term is two years or until further orders, whicheveris earlier.
 - Headed by: Union Minister of Commerce & Industry.
 - - Foster a culture of innovation amongst citizens and students.
 - Mobilize global capital for investments in Indian startups.
 - Keep control of startups with original promoters.
 - Provide access to global markets for Indian startups, etc.

Other initiatives for Startups promotion

- **Startup India** to catalyse startup culture in India.
- **Fund of Funds for Startups Scheme** with corpus of Rs. 10,000 crore to meet funding needs of startups.
- Scheme for Facilitating Start-Ups Intellectual Property Protection (SIPP) to protect and promote Intellectual Property Rights (IPR) of Startups
- Mentorship, Advisory, Assistance, Resilience, and Growth (MAARG) programme, virtual platform to mentor startups

Registration of Books(PRB) Act, 1867

The current PRB Act 1867 was aimed at curbing what the British Government thought was the role of the press in the "revolt of 1857".
 It was introduced during the Viceroyship of Lord John Lawrence (1864-1869)

Basis of differentiation	PRB Act, 1867	PRP Bill, 2023
Registration of periodicals	 ⊕ Provides for the registration of newspapers, periodicals, and books. ⊕ Provides for the cataloguing of books. 	
Decriminalization	$_{igodoldoldoldoldoldoldoldoldoldoldoldoldol$	 ● Decriminalizes violations under the Act. ● For certain violations, financial penalties have been proposed like publishing periodicals without registration.
Registration of a printing press	 ⊕ Requires a printing press to be declared before the DM. 	\odot Allows for information regarding printing presses to besubmitted through an online portal .
Appellate authority	$_{igodoldoldoldoldoldoldoldoldoldoldoldoldol$	 ● Provides for the Press and Registration Appellate Board. ● Aggrieved persons can appeal to the board within 60 days.
Suspend/cancel the Certificate of Registration	Only the DM could cancel the declaration of a periodical	€ Empowers the Press Registrar General to suspend/cancel the Certificate of Registration.

Also in News



Parliament passes 3 Bills

Both the Houses of the Parliament have passed following 3bills:

- The **Post Office Bill**, 2023 to ensure the effective functioning of the Postal Department
- The Chief Election Commissioner and Other Election Commissioners (Appointment, Conditions of Service and Term of Office) Bill, 2023 provides for the appointment, salary, and removal of the CEC and ECs
- The **Telecommunications Bill**, 2023 to regulate activities related to telecommunication
- For details kindly refer to the News Today dated Dec 06, 2023;Dec 13, 2023; and Dec 19, 2023 (respectively).

UNESCO's 2023 Prix Versailles

- Kempegowda International Airport Bengaluru (Karnataka) was honored at UNESCO's 2023 Prix Versailles, and named among the 'World's most beautiful airports'.
- Granted annually at UNESCO since 2015, the Prix Versailles consists of architecture awards that showcase the finest contemporary achievements worldwide.
 - The Official list align with the with the principles of intelligent sustainability and takes into consideration projects' ecological, social and cultural impacts into consideration.
 - It highlights the primary role of the Laureates in beautifying and improving the living environment.



ECI guidelines on Persons with Disabilities(PwDs).

The guidelines seek to nudge political parties to move towards respectful discourse for PwDs and ensure their equalparticipation.

- Key highlights
 - - The Section discusses **punishment for atrocities** againstPwD.
 - All political parties shall use rights-based terminologies as
 mentioned in CRPD (Convention on Rights of Persons with
 Disabilities).
 - CPRD (**India is signatory**) aims to promote, ensure full and equal enjoyment of all human rights and fundamental freedoms by all PwDs.



Chilla-i-Kalan began in Kashmir

- Chilla-i-Kalan is a Persian term that means 'major cold' and it refers to the 40-days of harsh winter in Kashmir.
- It is followed by a 20-day-long 'Chillai Khurd or small cold (occurs between January 31 and February 19)' and a 10-day-long 'Chillai Bacha or baby cold (February 20 to March 2)'.



Black Tiger (Melanistic Tiger)

- According to Union government Melanistic tigers have been recorded only in Similipal Tiger Reserve (STR) in Odisha.
 - As per All India Tiger Estimation (2022), out of 16 tigers 10 were
 melanistic at STR.
 - \oplus A single mutation in the gene TransmembraneAminopeptidase Q (Taqpep) causes the black tigers to develop broadened stripes.
- STR harbours the only population of melanistic tigers in the world.
 - \oplus It has been identified as a distinct genetic cluster for conservation.



Winter solstice 2023

- On December 22, the shortest day occurs when direct sunlighthits the **Tropic of Capricorn in the southern hemisphere.**
- Earth's 23.5-degree tilt along with its spin, and orbit cause sunlight duration variations at different locations throughout the year.
 - This lead to Equinox and Solstice phenomena
 - Equinox: When sun is directly over the equator and it occurs on -21 March and 23 September.
 - Solstice: Two types-Winter and Summer Solstice
 - » Summer Solstice: 21st June when direct sunlight isover the Tropic of cancer in the Northern hemisphere.

R21/Matrix-M malaria vaccine

- WHO prequalified the second malaria vaccine R21/Matrix-M (having 75% efficacy), developed by Oxford University and manufactured by the Serum Institute of India.

 - ● RTS,S/AS01 vaccine was the first vaccine to obtained prequalification in 2022.
- About Malaria
 - ● Malaria is caused by 5 Plasmodium parasite species (2 of these species – P. falciparum and P. vivax – pose the greatest threat).
 - Plasmodium parasites are spread to people through the bites of infected female Anopheles mosquitoes.



White-bellied sea eagle (Icthyophagaleucogaster)

Bird which is common to coastal habitats was spotted unusually in Tiruchirappalli (Tamil Nadu).

White-bellied sea eagle

- ⊕ Geographic range: They range north to south from southern China to Australia and Tasmania, and west to east
- from India to New Guinea.
 Habitat: Terrestrial
- habitats near the ocean, especially coasts, islands, and estuaries, etc.
- Threats: Habitat destruction, hunting, and poisoning by pesticides



Places in News

Papua new Guinea (Capital: Port Moresby)

- Recently \$1 million relief assistance announced by India for the volcanic eruption atMount Ulawun affected people of Papua New Guinea.
- Political features
 - It is an island country in the southwestern Pacific Ocean.
 - $\ensuremath{\mathfrak{S}}$ Situated between the Coral Sea and the South Pacific Ocean.
 - $\ensuremath{\mathfrak{O}}$ It has Indonesia in the west, Australia in the South, Solomon Islands in the East.
- Geographical Features
 - \oplus Highest point: Mount Wilhelm in the Bismarck Range
 - Major Rivers: Sepik, Ramu, Fly.

