

# TNPSC THERVUPETTAGAM CURRENT AFFAIRS NOVEMBER 2022

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## TNPSC BITS

- ❖ Every year, International Internet Day is celebrated on October 29 to commemorate a momentous invention in the history of telecommunications and technology.
- ❖ World Psoriasis Day is observed every year on October 29th to make the general public aware of the important facts related to psoriasis and this disease and its treatment.
  - Theme for the year was “Unloading Psoriatic Disease”.
- ❖ Prime Minister inaugurated the ‘Indian Urban Housing Conclave-2022’ a three-day event being organised by Ministry of Housing and Urban Affairs (MoHUA) at Rajkot, Gujarat.
- ❖ Prime Minister inaugurated the Indian Institute of Information Technology (IIIT) in Una, Himachal Pradesh.
- ❖ India’s representative to the International Civil Aviation Organization (ICAO), Shefali Juneja has been elected as the chairperson of the United Nations’ specialized aviation agency’s Air Transport Committee.
- ❖ All states in the country will have National Investigation Agency (NIA) offices by 2024 as a strategy to counter terrorism.
- ❖ India defeated Sri Lanka in the finals of the Women’s Asia Cup 2022.
  - India has bagged the position for the 7<sup>th</sup> time.
- ❖ Minister of Petroleum and Natural Gas & Housing and Urban Affairs, Hardeep Singh Puri has authored a new book titled “DELHI UNIVERSITY: Celebrating 100 Glorious Years”.
- ❖ The Indian and US militaries carried out a joint humanitarian assistance exercise - Tiger Triumph exercise - in Vishakhapatnam in line with the growing strategic cooperation between the two countries.
- ❖ The Indian Navy is hosting the 29<sup>th</sup> edition of the Singapore-India Maritime Bilateral Exercise (SIMBEX) in Visakhapatnam.
- ❖ In ISSF World Championship, Indian shooter Rudrankksh Balasaheb Patil won gold medal in men's 10m air rifle event in Cairo, Egypt.
- ❖ The Fifth Khelo India Youth Games - 2022 will be held in Madhya Pradesh.
- ❖ Uttar Pradesh Chief Minister has inaugurated North India’s first hyper-scale data centre at Greater Noida, Uttar Pradesh.
- ❖ The Indian Army and the US Army conducted a high-altitude military exercise, ‘Yudh Abhyas’ in Uttarakhand.
- ❖ Karnataka's highest civilian award, the 'Karnataka Ratna' was conferred posthumously on late actor Puneeth Rajkumar.



- ❖ Indian junior men's hockey team defeated Australia to win the Sultan of Johor Cup 2022.
- ❖ All India Football Federation, Ministry for Education and FIFA signed a MoU to broad base football across various schools in the country through the Football for Schools programme.
- ❖ The bi-annual Indian Naval Commanders' Conference held in new Delhi.
- ❖ The 15-member committee under Rakesh Joshi has been set up for two years by the IRDAI to achieve objective of universalization of health insurance in India.
- ❖ India is going to contribute half a million dollars to the United Nations' efforts to counter global terrorism at a time when new and emerging technologies used by terror groups are posing fresh threats to governments around the world.
- ❖ 'Permacrisis' has been chosen as the Collins Dictionary's word of the year.
  - The word means an extended period of instability and insecurity.
- ❖ R Praggnanandhaa and compatriot P V Nandhidhaa won the titles in the Open and women's sections respectively in the Asian Continental Chess championship.
- ❖ Maharashtra, New Delhi and Goa have the highest mutual fund penetration in India.
- ❖ Reliance Industries Limited (RIL) has appointed veteran banker KV Kamath as an independent director on its board for five years.
- ❖ Lionel Messi has been named the first global brand ambassador of BYJU'S social impact arm, Education for All.
- ❖ Mumbai defeated Himachal Pradesh to win the 2022 edition of the Syed Mushtaq Ali Cricket Trophy.
  - It was the first time that Mumbai won the trophy.
- ❖ Uttar Pradesh Chief Minister Yogi Adityanath unveiled the statue of former Prime Minister late Chandra Shekhar in Ballia district
- ❖ The Asian Hockey Federation CEO Mohammad Tayyab Ikram of China's Autonomous Region Macau was elected as the new president of the International Hockey Federation.
- ❖ Virat Kohli became the first batter to cross the 4000 T20I run mark.
  - He was also the first to breach the 3000-run mark in the shortest format for India.
- ❖ The Government of India has made changes to the Foreign Trade Policy in order to allow for rupee settlement of the international trade for export promotion schemes.
- ❖ Atal Innovation Mission has launched Woman centric challenges under phase-II of the 2nd edition of the Atal New India Challenge (ANIC).



- ❖ An Indian-origin Sikh Volunteer Amar Singh has been honoured with the prestigious 2023 New South Wales Australian of the Year Award.
  - Amar Singh founded 'Turbans4Australia' 7 years ago.
- ❖ Google announced the winner of the Doodle for Google 2022 competition.
  - Shlok Mukherjee from Kolkata has been declared the winner for India for his inspiring Doodle 'India on the Center Stage.'
- ❖ An Iranian refugee Mehran Karimi Nasseri, who lived for 18 years in Charles de Gaulle Airport in Paris, passed away in that same airport.
  - His tale inspired the 2004 Steven Spielberg film "The Terminal".
- ❖ The 41st India International Trade Fair was organized started at Pragati Maidan in New Delhi.
  - This year the theme of the trade fair is Vocal For Local, Local to Global.
- ❖ New Zealand's Greg Barclay unanimously was re-elected as the International Cricket Council (ICC) chairman for another two-year term.
- ❖ Amazon becomes the World's First Public Company in History to lose a trillion dollars in market value.
  - It was a combination of rising inflation, tightening monetary policies and disappointing earnings updates.
- ❖ Reports from high courts on the pendency of criminal cases against sitting and former MPs and MLAs showed a 21% increase in three years from 4,122 in December 2018 to 4,984 in December 2021.
  - Maharashtra registered the highest number of cases against sitting and former lawmakers.
- ❖ Wipro has reached an agreement with employee representatives on setting up a European Works Council (EWC).
  - The creation of Wipro's EWC is the first to be established by an Indian headquartered company.
- ❖ Star Indian paddler Achanta Sharath Kamal has become the first player from India to get elected in the Athletes' Commission of the International Table Tennis Federation (ITTF).
  - He is also the Vice-Chairman of the Athletes Commission of the Indian Olympic Association (IOA).
- ❖ Lance Naik Manju became the Indian Army's first woman skydiver after she jumped from a height of 10,000 ft from the Advanced Helicopter (ALH) Dhruv.
- ❖ Indian Army is celebrating the 242<sup>nd</sup> Corps of Engineers Day on 18th November.
  - The Corps of Engineers has three groups, i.e., Madras Sappers, Bengal Sappers and Bombay Sappers which were amalgamated into the Corps on 18 Nov 1932.





- ❖ Shiva Narwal from Haryana won the gold medal in the 10m men's air pistol competition at the Asian Airgun Championship in Daegu, South Korea.
- ❖ Facebook-parent company Meta has appointed Sandhya Devanathan as its new top executive for the country.
  - Earlier, Meta announced the departure of erstwhile country head, Ajit Mohan, with immediate effect.
- ❖ The Uttarakhand High Court will be shifted from Nainital to Haldwani.
  - The high court in Nainital was set up a day after Uttarakhand came into being in 2000.
- ❖ World Citizen Day is an annual celebration observed on November 19th of every year.
- ❖ The Transgender Day of Remembrance, also known as the International Transgender Day of Remembrance, has been observed annually on November 20.
- ❖ "Homer" was chosen by the Cambridge Dictionary as the word of the year for 2022, citing Wordle as its source of inspiration.
- ❖ The Uttarakhand High Court will be shifted from Nainital to Haldwani.
- ❖ The Chief Election Commissioner of India Rajiv Kumar has been invited by the Election Commission of Nepal as an international observer for the forthcoming elections.
- ❖ The Board of Control for Cricket in India (BCCI) has dissolved the four-member National Selection Committee headed by Chetan Sharma after India team's uninspired performance in T20 World Cup.
- ❖ FIFA president Gianni Infantino will stand unopposed to be re-elected for a third term in the position.
- ❖ Prime Minister inaugurated the silver jubilee edition of the Bengaluru Tech Summit (BTS 22) virtually.
- ❖ GeoSmart India 2022 Summit was inaugurated in Hyderabad.
- ❖ Manika Batra creates history by becoming the first ever Indian female paddler to win a medal at Asian Cup Table Tennis tournament.
- ❖ India carried out a successful launch of Agni-3 Intermediate Range Ballistic Missile from A.P.J. Abdul Kalam Island in Odisha.
- ❖ The 53rd edition of the International Film Festival of India (IFFI) held in Goa.
- ❖ Karnataka Vikas Grameena Bank (KVGB) has bagged the national award from Pension Fund regulatory and Development Authority (PFRDA) for significant enrolment under Atal Pension Yojana.
- ❖ India ended their campaign at the 15<sup>th</sup> Asian Airgun Championships in South Korea with 25 gold medals.

## TAMIL NADU

### Raja Raja Chola's birth anniversary

- ❖ The Tamil Nadu government issued a statement saying Raja Raja Chola's birth anniversary, on November 3, would be celebrated as a government event from this year onwards.
- ❖ Also, the Raja Raja Chola's memorial will be renovated and embellished soon.
- ❖ Raja Raja Chola was a famous emperor from the Chola dynasty.
- ❖ Born as Arunmozhi Varman, this Chola emperor reigned from 985 CE to 1014 CE.
- ❖ His birth anniversary is already celebrated as Sadhaya Vizha by several organisations in Thanjavur district.



### Senna Spectabilis

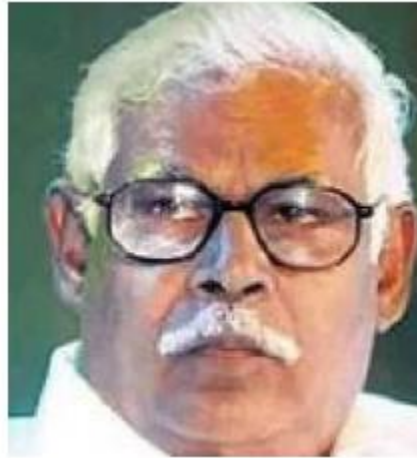


- ❖ Tamil Nadu Forest Department made a comprehensive strategy to deal with the spread of Senna Spectabilis in the Mudumalai Tiger Reserve buffer zones.

- ❖ *Senna spectabilis* is an invasive species with bright yellow flowers.
- ❖ It was introduced as an ornamental species from South and Central America.
- ❖ It has become highly invasive in the Sigur plateau in both the core and buffer zones of the Mudumalai Tiger Reserve.
- ❖ It is one among five major invasive weeds in the Nilgiri region.
- ❖ *Lantana camara*, Wattle, Eucalyptus and Pine are the other 4 invasive species in this region.

### **Nedunchezhiyan**

- ❖ Noted Tamil scholar and orator K. Nedunchezhiyan of Anbil Padugai of Tiruchi passed away recently.
- ❖ He is recipient of Kalaignar M. Karunandhi Semmozhi Tamil Award of the State government.
- ❖ He had authored more than 20 books.
- ❖ *Aasivagamum Iyyanar Varalarum*, his last book, was released in 2019.



### **Chevalier award**

- ❖ Carnatic vocalist Aruna Sairam will be conferred the Chevalier de l'Ordre National du Mérite, the Knight of the Order of the Merit, by the French government.
- ❖ She has been selected for her singing talent and contribution to the development of Indo-France relations.
- ❖ Aruna Sairam has received many awards, including the Padma Shri from the Government of India and the Sangeetha Kalanidhi Award from the Music Academy.



## 17th wildlife sanctuary

**ABOUT THE SANCTUARY**



**JUMBO SIGHTING:** Elephants at the new sanctuary

|  |  |
|--|--|
| <b>Location</b>   Between Cauvery North Wildlife Sanctuary in TN and Cauvery Wildlife Sanctuary in Karnataka | chances are the animals may enter the newly notified sanctuary   |
| <b>In pipeline</b>   Wildlife authorities to write an integrated management plan for the sanctuary           | <b>Important elephant habitat</b>   A sizeable population of elephants is reported                                   |
| <b>Tiger movements</b>   As tiger sightings have been reported in Cauvery Wildlife Sanctuary,                | <b>Formation</b>   Ten reserved forests in Krishnagiri and six in Dharmapuri have been clubbed to form the sanctuary |

- ❖ Tamil Nadu government has notified the Cauvery South Wildlife Sanctuary on as the state's 17th wildlife sanctuary.
- ❖ The sanctuary is covering reserve forest areas in Krishnagiri and Dharmapuri districts.
- ❖ It is home to 35 species of mammals, 238 species of birds and other red-listed species.
- ❖ This landscape maintains further continuity to the Nilgiri Biosphere through Malai Mahadeshwara Wildlife Sanctuary, Billigiri Rangaswamy Temple Tiger Reserve in Karnataka and Sathyamangalam Tiger Reserve and Erode District.
- ❖ Two important and large elephant corridors namely, the Nandimangalam-Ulibanda Corridor and the Kovaipallam-Anebiddahalla Corridor fall in this area.

### Third-largest state in own tax revenues

- ❖ Tamil Nadu has displaced Karnataka to emerge as the third largest state in terms of own tax revenue collections in the first half of the current fiscal.
- ❖ It is driven largely by excise duty on liquor sales.
- ❖ Maharashtra and Uttar Pradesh take the first two positions.

**A substantial rise**  
The tax collection in Tamil Nadu has increased by over 50% in the first quarter of fiscal 2023

|                              | Q1 2023         | Q1 2022         | % change    |
|------------------------------|-----------------|-----------------|-------------|
| State Goods and Services Tax | 13692.84        | 9224.11         | 48.4        |
| Stamps and Registration Fees | 4457.95         | 2314.46         | 92.6        |
| Land Revenue                 | 58.46           | 38.07           | 53.5        |
| Taxes on Sales, Trade etc    | 13119.24        | 9484.81         | 38.3        |
| State Excise Duties          | 2594.55         | 1199.23         | 116.3       |
| <b>Total</b>                 | <b>33923.04</b> | <b>22260.68</b> | <b>52.3</b> |

(IN ₹ CRORE) SOURCE: COMPTROLLER AND AUDITOR GENERAL OF INDIA

### India's first multimodal logistics park



- ❖ Reliance Industries Ltd (RIL) has been awarded the project to build India's first multimodal logistics park (MMLP) in Chennai, Tamil Nadu.
- ❖ Under the National Logistics Policy (NLP) and PM-Gati Shakti, it wants to bring down logistics costs to under 10 per cent of the GDP (from the current 14%) in a bid to make exports competitive and supply chains more efficient.
- ❖ India's first MMLP is being set up in Mappedu village in Thiruvallur district.
- ❖ It is located near the automobile and electronics manufacturing clusters on the Sriperumbudur-Oragadam industrial belt.

### **Gandhigram University – Ilayaraja**

- ❖ Prime Minister Narendra Modi took part in the convocation of the Gandhigram Rural Institute-Deemed to be University in Dindigul.
- ❖ At the convocation, musicians including Ilayaraja and Umayalpuram Sivaraman were conferred honorary doctorates.
- ❖ The Gandhigram Rural Institute of Higher Education was founded in 1956 to carry on Mahatma Gandhi's 'Nai Talim' system of education.
- ❖ Dr. T.S. Soundaram and Dr. G. Ramachandran developed the institute.



### **Chennai - Mysuru Vande Bharat Express**



- ❖ PM Modi flagged off Chennai-Mysuru Vande Bharat Express and Bharat Gaurav Kashi Yatra train from Bengaluru KSR Railway Station.
- ❖ It is India's fifth and south India's first Vande Bharat Express.




- ❖ The other four are being run between New Delhi - Varanasi and New Delhi - Shri Mata Vaishno Devi Katra, Gandhinagar and Mumbai, and New Delhi-Una.
- ❖ It was indigenously built at Integral Coach Factory (ICF), Perambur.
- ❖ Vande Bharat is a semi-high-speed train.
- ❖ It is a self-propelled engine train.
- ❖ It does not have a separate engine.

### **Biggest iPhone Manufacturing Unit in India**

- ❖ The biggest unit to manufacture Apple iPhone in India is coming up near Hosur near Bengaluru.
- ❖ For this, Tata Electronics is expanding its facility in Hosur.
- ❖ The company gets iPhones manufactured by electronics giants - Wistron (Karnataka) Foxconn, and Pegatron in India.
- ❖ Tamilnadu already houses Foxconn and Pegatron.

### **Tamil Nadu Elephant Death Audit Framework**

- ❖ This is the first of its kind initiative in the country
- ❖ Tamil Nadu's Forest Department has introduced an elephant death audit framework to put in place a more detailed and transparent process for recording and monitoring elephant deaths in the State.
- ❖ It prescribes a systematic standard protocol for conducting post-mortem to determine the reasons for death of an elephant.
- ❖ It will help to study the circumstances of preventable and unnatural deaths and formulate measures to prevent them.
- ❖ It will be applicable all over Tamil Nadu for the death of elephants in the wild.
- ❖ It has to be uniformly followed in all wildlife areas and territorial divisions.
- ❖ India is home to over two-thirds of the World's Asian elephant population.
- ❖ Incredibly, they live alongside people across much of India, with only about 20 per cent of their range inside protected areas.
- ❖ Yet their population is stable or even increasing in some regions.
- ❖ Elephants are among the most long-lived mammals, with a life expectancy of around 50 years in the wild, and a generation length of 22 years.

| <b>THE PROTOCOL</b>  |   |
|--|---|
| <p><i>There are 5 stages to be followed immediately after death of an elephant</i></p>  | <ol style="list-style-type: none"> <li>1. <b>FIR has to be filed</b></li> <li>2. Site information report needs to be prepared, <b>including perambulation and external examination</b></li> <li>3. Interim postmortem report, <b>including the procedure and carcass disposal, has to be there</b></li> <li>4. Management intervention report, <b>including formulation of preventive measures based on outcome, has to be prepared</b></li> <li>5. <b>Preparation of periodical death audit reports</b> for follow-up action must</li> </ol> |

### Tamil Nadu Backward Classes Commission



- ❖ The Tamil Nadu government has reconstituted this commission.
- ❖ Earlier, it has been headed by a retired High Court judge M. Thanikasalam who has submitted his resignation letter to the government.
- ❖ So, the government named retired Madras High Court judge V. Bharathidasan as its chairperson.

### Siberian Rubythroat



- ❖ A rare winter migrant, Siberian rubythroat has been recorded in the Nilgiris.
- ❖ It is a ground-loving songbird.
- ❖ The species are migratory, wintering in south-east Asia (Thailand, India, Indonesia and Bangladesh).



## **Avvai Natarajan**



- ❖ Tamil scholar Avvai Natarajan (86) died in Chennai.
- ❖ He served as the Vice-Chancellor of Tamil University in Thanjavur (1992-1995).
- ❖ Later, he served as the Vice Chairperson in the Governing Board of Central Institute of Classical Tamil.
- ❖ He was brought to the Department of Information and Public Relations of Tamil Nadu government when M. Karunanidhi was the Chief Minister in 1974.
- ❖ In a rare feat, he went on to serve as the Secretary of Department of Tamil Development and Culture even though he was not an IAS officer.

## **The Kashi Tamil Sangamam (KTS)**

- ❖ Prime Minister Narendra Modi inaugurated this event in Varanasi.
- ❖ It is a month-long event organised by the Union Education Ministry.
- ❖ It is to rediscover historical links between Kashi (Varanasi) in Uttar Pradesh and Tamil Nadu.
- ❖ He also released a book 'Thirukkural' along with its translation into 13 languages.
- ❖ The Prime Minister underlined Tamil Nadu's contribution to the development of Kashi and recalled that Tamil Nadu-born Sarvepalli Radhakrishnan was the Vice Chancellor of Banaras Hindu University.
- ❖ The Prime Minister also mentioned the great poet and revolutionary, Subramania Bharathi who lived in Kashi for many years.
- ❖ He also announced the chair dedicated to Subramania Bharati in the Banaras Hindu University.

## **Arittapatti biodiversity heritage site**



- ❖ The Tamil Nadu Government issued a notification declaring Arittapatti and Meenakshipuram villages in Madurai district as the first biodiversity heritage site in the State.
- ❖ The site comprising 139.63 hectares in Arittapatti village (Melur block) and 53.8 hectares in Meenakshipuram village (Madurai East taluk) will be known as the Arittapatti Biodiversity Heritage site.
- ❖ Arittapatti village, known for its ecological and historical significance, houses around 250 species of birds including three important raptors - birds of prey, namely the Laggar Falcon, the Shaheen Falcon and Bonelli's Eagle.
- ❖ It is also home to wildlife such as the Indian Pangolin, Slender Loris and pythons.
- ❖ The area is surrounded by a chain of seven hillocks or inselbergs that serve as a watershed.
- ❖ The Anaikondan tank, built during the reign of Pandiyan kings in the 16th century is located here.
- ❖ Several megalithic structures, rock-cut temples, Tamil Brahmi inscriptions and Jain beds add to the historical significance of the region.

## **Director General of Audit**

- ❖ Tamil Nadu was the first State to create the role of Director General of Audit.
- ❖ It has hired an officer from the Indian Audit and Accounts Service on deputation for this.
- ❖ The officer's responsibility will be to strengthen and streamline the functioning of internal audit departments, so that they perform their functions professionally.

## Perambalur's 1st sipcot

- ❖ Chief Minister inaugurated the SIPCOT Industrial Park at Erarayur in Perambalur district.
- ❖ He also laid the foundation stone for the Phoenix Kothari Footwear Park.
- ❖ This is the first SIPCOT industrial park in the industrially backward district of Perambalur.
- ❖ SIPCOT stands for State Industries Promotion Corporation of Tamil Nadu Limited.



## NATIONAL

### Silver Trumpet and Trumpet Banner

- ❖ President Droupadi Murmu presented the Silver Trumpet and Trumpet Banner to the President's Bodyguard.
- ❖ The President's Bodyguard (PBG) is the oldest regiment in the Indian Army, having been raised as the Governor-General's Bodyguard in 1773.
- ❖ The regiment was raised in Banaras (Varanasi) by the then Governor-General, Warren Hastings.
- ❖ On January 27, 1950, the regiment was renamed the President's Bodyguard.
- ❖ This distinction was conferred on the President's Bodyguard in 1923 by the then Viceroy, Lord Reading, on the occasion of the Bodyguard completing 150 years of service.

- ❖ Each succeeding Viceroy, thereafter, presented the Silver Trumpet and Trumpet Banner to the Bodyguard.
- ❖ Dr Rajendra Prasad, the first President of India, presented the Silver Trumpet and Trumpet Banner to the President's Bodyguard on May 14, 1957.



### **DefExpo 2022**



- ❖ Prime Minister inaugurated the defence expo, DefExpo 2022, at the Mahatma Mandir Convention and Exhibition Centre in Gujarat's Gandhinagar.
- ❖ This is the first defence expo where only Indian companies are participating and it features only Made in India equipment.
- ❖ The expo is being attended by 53 friendly countries from Africa.
- ❖ The 2nd India-Africa Defence Dialogue (IADD) was held on the side-lines of DefExpo 2022
- ❖ India is exporting defence materials and equipment to more than 75 countries of the world.

### **All-India Conference of Law Ministers and Law Secretaries**

- ❖ This two-day conference is being hosted by the Ministry of Law and Justice at Ekta Nagar in Gujarat.
- ❖ The objective of the conference is to provide a common forum for policymakers to discuss issues relating to the Indian legal and judicial system.

- ❖ The Law ministers and secretaries from states and union territories will attend the event.



### **Dietary supplements testing facility**

- ❖ The Sports Ministry will set up India's first-ever dietary supplements testing facility at the National Forensic Science University in Ahmedabad.
- ❖ It aims to curb the doping menace in the country.
- ❖ The Sports Ministry, Food Safety and Standards Authority of India and the NFSU signed a Memorandum of Understanding for setting up the testing facility.

### **'Garuda VII' – 2022**

- ❖ Indian Air Force (IAF) and French Air and Space Force (FASE) are participating in a bilateral exercise, named 'Garuda VII' at Air Force Station Jodhpur.
- ❖ This is the seventh edition of the bilateral exercise.
- ❖ The first, third and fifth editions were conducted in India in 2003, 2006 and 2014.





## **India Space Congress 2022**

- ❖ India Space Congress was organized by SatCom Industry Association (SIAIndia) with assistance from ISRO, Ministry of Defence, NITI Aayog, In-Space, NewSpace India Ltd (NSIL) and the DoT.
- ❖ The theme for the event is 'Leveraging Space to Power Next-Gen Communication & Businesses'.
- ❖ Microsoft had announced partnerships with 15 space startups as an extension of its Startup Founders Hub programme.

## **Merger of NAA**

- ❖ The National Anti-Profiteering Authority (NAA) is likely to merge with the Competition Commission of India.
- ❖ The tenure of the GST watchdog is expired leaving around 400 cases pending before it which dealt with customer complaints regarding not receiving tax cut benefits.
- ❖ The NAA came into existence on 30 November 2017.
- ❖ It was constituted under Section 171 of the Central Goods and Services Tax Act, 2017.
- ❖ It aims to ensure that the reduction in the rate of tax or the benefit of the input tax credit is passed on to the recipient by way of commensurate reduction in prices.

## **Approval for GM mustard**

- ❖ The Government of India has granted the environmental clearance for the indigenously developed genetically modified (GM) mustard seeds.
- ❖ The latest decision has paved a way for the commercial use of its first genetically modified food crop.
- ❖ The GM crops regulator, the Genetic Engineering Appraisal Committee (GEAC), had cleared GM mustard in 2017.
- ❖ But the Indian government raised questions and asked for more studies, which has taken another five years.
- ❖ Now, even if the government gives the mandatory final approval, it will be another three years before farmers finally get GM mustard seeds for commercial cultivation.

**MODIFIED MUSTARD ON YOUR PLATE**



|   |   |   |
|---|---|---|
| <p><b>What is GM mustard?</b><br/>It is a mustard variety developed by DU's Centre for Genetic Manipulation of Crop Plants. The project was publicly funded.</p> <p><b>Why is it in the news?</b><br/>Regulator GEAC is making a final review of biosafety data to decide whether it can be allowed</p> | <div style="background-color: red; color: white; border-radius: 50%; padding: 10px; display: inline-block;"> <p style="font-size: 1.2em; margin: 0;"><b>₹70cr</b></p> <p style="font-size: 0.8em; margin: 0;"><b>What the project is worth</b></p> </div> | <p><b>What do opponents say?</b><br/>GM mustard data not made public, so no way of independently assessing it</p> <p><b>Will the govt clear it?</b><br/>That's an unknown, but Narendra Modi-led central government says it stands in favour of GM research</p> |
|---|---|---|

### **Advance Estimates of area and production of horticultural crops for the year 2021-22**

- ❖ The Ministry of Agriculture and Farmers Welfare, has released the 3rd Advance Estimates of the area and production of various horticultural crops for the year 2021-22.
- ❖ According to this estimate, a record 342.33 million tonnes are estimated to be produced in an area of 28.08 million hectares.
- ❖ Production of fruits is estimated to be 107.24 million tonnes as against 102.48 million tonnes in 2020-21.
- ❖ Production of vegetables is estimated to be 204.84 million tonnes as against 200.45 million tonnes in 2020-21.
- ❖ Onion Production is estimated to be 31.27 million Tonnes as against 26.64 million Tonnes in the year 2020-21.
- ❖ Potatoes Production is estimated to be 53.39 million tonnes as against 56.17 million tonnes in 2020-21.
- ❖ Tomato production is estimated to be 20.33 million tonnes as against 21.18 million tonnes in 2020-21.



| Total Horticulture             | 2020-21<br>(Final) | 2021-22<br>(Second<br>Advance<br>Estimate) | 2021-22<br>(3rd<br>Advance<br>Estimate) |
|--------------------------------|--------------------|--|---|
| Area (in million hectares)     | 27.48              | 27.74                                      | 28.08                                   |
| Production (in Million Tonnes) | 334.60             | 341.63                                     | 342.33                                  |

### **Bharatiya Bhasha Diwas**

- ❖ The UGC has directed all the institutions of higher education in the country to observe Bharatiya Bhasha Diwas (Indian Language Day) on December 11 every year.
- ❖ It aims to create “language harmony” and develop a conducive environment for learning Indian languages.

### **Special Operation Medal**

- ❖ The “Union Home Minister’s Special Operation Medal” for the year 2022 have been awarded for 4 Special Operations.
- ❖ The medal winners include 11 from Maharashtra.
- ❖ The medal was constituted in 2018.
- ❖ It aims to recognize those operations, which have high degree of planning, high significance for the security of the country/State/UT.
- ❖ The award shall be conferred for Special Operation in the areas such as counter terrorism, border action, arms control, prevention of narcotics smuggling and rescue operations.

### **Ban on Two-finger test**

- ❖ The Supreme Court ruled that those conducting the ‘two-finger test’ on alleged rape victims will be held guilty of misconduct.
- ❖ Observing that the test was based on a patriarchal mindset that assumed that sexually active women could not be raped.
- ❖ In May 2013, the Supreme Court had banned the two-finger test on rape victims on the grounds that it violates their right to privacy.



## TWO-FINGER TEST IS NOT SCIENTIFIC

### AN INVASIVE EXAMINATION

- > Also called virginity test, it is an inspection of female genitalia to determine whether a woman or girl has had vaginal intercourse
- > In rape cases, this was used to identify whether the victim was habitual to sexual intercourse
- > Common techniques are inspection of the hymen for size or tears, and insertion of two fingers to measure laxity of vaginal wall

**LEGAL POSITION ON TEST**

The Supreme Court in May 2013 banned the test, stating that it violates a rape survivor's right to privacy

### STATE'S ACTION

- > The state subsequently issued a government resolution (GR) banning the test for sexual assault victims
- > The GR criticized the undue importance given to external injuries like signs of resistance, hymen examination and assessment of virginity
- > It was based on a report by an eight-member panel appointed after a PIL was filed

**GUIDELINES IN GR** | Receiving survivor's consent for any examination and mandatory presence of female nurse or attendant

## Ban on aceclofenac in cattle

## VANISHING VULTURES

High mortality hinders India's plans of stabilising its vulture population

**53% drop in India's vulture population since 2003**

|                       |                       |                       |                       |
|-----------------------|-----------------------|-----------------------|-----------------------|
| 2003<br><b>40,387</b> | 2007<br><b>32,251</b> | 2011<br><b>34,950</b> | 2018<br><b>18,645</b> |
|-----------------------|-----------------------|-----------------------|-----------------------|

### The fatal four

|   |   |  |  |
|---|---|--|--|
| <p><b>DICLOFENAC</b><br/>was banned for veterinary use in 2006 to arrest the shrinking vulture population</p> | <p><b>ACECLOFENAC</b><br/>gets converted into diclofenac within hours of administration to cattle</p> | <p><b>NIMESULIDE</b><br/>causes visceral gout and renal failure in vultures within 30 hours of ingestion</p> | <p><b>KETOPROFEN</b><br/>causes death in vultures within 48 hour after ingestion due to heightened toxicity levels</p> |
|---|---|--|--|

### Major habitation loss

|                              |   |
|------------------------------|---|
| <b>307</b><br>VULTURE DEATHS | <b>BIKANER</b> RAJASTHAN, 2019, 2020<br><i>REASONS:</i> Use of non-steroidal anti-inflammatory drugs (NSAIDs) for treating animals; electrocution |
| <b>210</b>                   | <b>RAIGAD</b> MAHARASHTRA, 2010<br><i>REASON:</i> Habitat loss due to Cyclone Nisarga   |
| <b>120</b>                   | <b>JAISALMER</b> RAJASTHAN, 2021<br><i>REASONS:</i> Use of non-steroidal NSAIDs for treating animals; electrocution                               |
| <b>100</b>                   | <b>KAMRUP</b> ASSAM, 2022<br><i>REASON:</i> Consumption of pesticide-laced carcasses kept to control stray dog population                         |
| <b>SURENDRANAGAR</b>         | GUJARAT, 2019<br><i>REASON:</i> Use of NSAIDs for treating animals  |

- ❖ Indian Veterinary Research Institute (IVRI) found that aceclofenac converted into diclofenac after it was injected into water buffaloes.
- ❖ Also, similar results are seen in domestic cattle.
- ❖ So, the IVRI demanded the ban of using the aceclofenac in cattle.
- ❖ The diclofenac was found within 20 minutes after the aceclofenac was injected.
- ❖ The concentration of diclofenac reached the peak between 4 to 8 hours.
- ❖ This threatens vultures, who consume carcasses of these cattle for survival.
- ❖ Aceclofenac is a veterinary painkiller used to treat cattle and dogs.
- ❖ Vulture Action Plan 2020-2025 recognizes aceclofenac as toxic.

### **Mangarh Dham - National Monument**

- ❖ Prime Minister declared Mangarh Dham as a National Monument in the Banswara District of Rajasthan.
- ❖ Mangarh hill holds special importance for the Bhil community and other tribes of Rajasthan, Madhya Pradesh, and Gujarat.
- ❖ During the freedom struggle more than 1.5 lakh Bhils and other tribes engaged in a long stand-off with British officials at Mangarh Hill.
- ❖ The Britishers opened fire at this gathering, leading to Mangarh Massacre where approximately 1500 tribals were martyred.



### **'Chintan Shivir' of Home Ministers**

- ❖ Chintan Shivir was chaired by Union Home Minister and held in Haryana.
- ❖ The event Chintan Shivir of Home Ministers aims to provide a national perspective to the formation of policies related to internal security of India.
- ❖ It aims to boost synergy in planning and coordination between various stakeholders at the national and state levels.

- ❖ The event was organized to create an action plan for the implementation of Vision 2047 and Panch Pran.



### World's biggest employer



- ❖ According to Statista research, the Indian Ministry of Defence is the largest employer worldwide.
- ❖ According to the study, it has 2.92 million total members, which comprises active-duty personnel, reservists, and support workers.
- ❖ The US Department of Defense, which employs 2.91 million people, comes in second place.

## Sustainability performance in 2022



- ❖ Bharat Petroleum Corporation Limited (BPCL), has once again achieved the No.1 rank in the Indian oil and gas sector for its sustainability performance in the 2022 edition rankings.
- ❖ This index was released by S&P Dow Jones Sustainability Indices (DJSI) Corporate Sustainability Assessment (CSA).
- ❖ This is the 3rd consecutive year that BPCL is at the top of the DJSI Indices.

## National Model Vedic School

- ❖ Union Education Minister Dharmendra Pradhan inaugurated the country's second Rashtriya Adarsh Veda Vidyalaya (RAVV) in Puri.
- ❖ It aims to spreading knowledge of the Vedas among people.
- ❖ The RAVV or the National Model Vedic School has come up on the campus of the Central Sanskrit University.
- ❖ Maharishi Sandipani Rashtriya Ved Vidya Pratishthan is the first such school in Madhya Pradesh's Ujjain.

## India Chem 2022

- ❖ The 12th edition of the India Chem 2022 will be jointly organized by the Department of Chemicals and Petrochemicals and FICCI.
- ❖ Theme of the event will be "Vision 2030: Chemicals and Petrochemicals Build India".
- ❖ India Chem is the flagship event of the Indian Government's Department of Chemicals & Petrochemicals.
- ❖ It is the largest event focusing on Indian chemicals and petrochemical industry.
- ❖ It is one of the largest composite events of the industry in the Asia-Pacific Region.



## **C-295 Aircraft**



- ❖ Prime Minister laid the foundation stone of a C295 aircraft manufacturing plant in Vadodara, Gujarat.
- ❖ Tata-Airbus consortium that will manufacture the transport aircraft for the Indian Air Force (IAF).
- ❖ It is the first project of its kind in which a military aircraft will be manufactured in India by a private company.
- ❖ It is also the first time that the C295 aircraft will be manufactured outside of Europe.
- ❖ The C295 was originally produced by a Spanish aircraft manufacturer named Construcciones Aeronauticas SA.
- ❖ In September 2021, India signed deal with Airbus Defence and Space to procure 56 C295 aircraft to replace the IAF's Avro-748 planes.
- ❖ Under the agreement, Airbus will deliver the first 16 aircraft in 'fly-away' condition.
- ❖ Subsequent 40 aircraft will be manufactured by Tata Advanced Systems Ltd (TASL) in India as part of an industrial partnership between the two companies.

## **EWS Reservation**



- ❖ The Supreme Court upheld the 10 percent quota for economically weaker sections (EWS) in public jobs, public and private education institutes.
- ❖ This case is challenging the validity of the 103rd Constitution amendment.
- ❖ The Lok Sabha and the Rajya Sabha cleared the bill on January 8 and 9 in 2019 respectively.
- ❖ The EWS quota is over and above the existing 50 percent reservation to SCs, STs, and Other Backward Classes (OBCs).

## **Responsible Steel certification**

- ❖ Tata Steel has received Responsible Steel certification for three of its production facilities in Jamshedpur, Jharkhand.
- ❖ The steel works, tubes division and cold rolling mill (Bara) have joined the group of other steel-producing sites around the world with the certification.
- ❖ This is a historic moment for Tata Steel and an important step in our sustainability journey.
- ❖ Responsible Steel is the steel industry's first global multi-stakeholder standard and certification initiative.

## **India Animal Fund**

- ❖ India Animal Fund has launched India's first donation platform for effective ways of giving for animal welfare.
- ❖ The collective of cooperates leaders and individuals put together a plan to mainstream animal welfare and reduce the animal suffering in all its forms.
- ❖ The vision is to create a world that is free of animal harm and exploitation and which prioritizes ending the sufferings of all sentient beings independent of species.

- ❖ The plan is to reach out to the potential donors and have them fund a variety of projects that NGOs are either interested in pursuing, already pursuing or will pursue.

### **National Tribal Dance Festival**

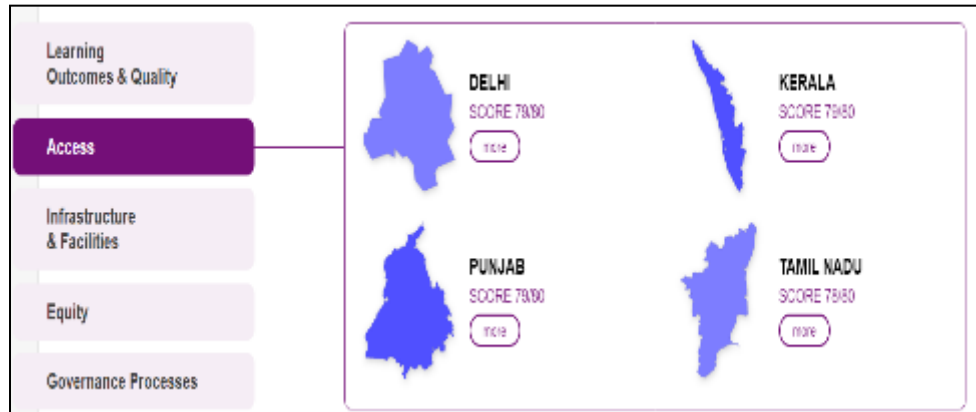
- ❖ 3<sup>rd</sup> National Tribal Dance Festival held at Chhattisgarh's Raipur.
- ❖ In the National Tribal Dance Festival, tribal dance groups from all states and union territories of India will be taking part.
- ❖ About 1500 tribal artists will take part in the event of which 1400 will be from India and 100 will be from other countries.

### **Ballistic Missile Defence interceptor**

- ❖ DRDO conducted a successful maiden flight-test of Phase-II Ballistic Missile Defence (BMD) interceptor AD-1 missile.
- ❖ The AD-1 is a long-range interceptor missile designed for both low exo-atmospheric and endo-atmospheric interception of long-range ballistic missiles as well as aircraft.
- ❖ It is propelled by a two-stage solid motor.
- ❖ It is equipped with indigenously-developed advanced control system, navigation and guidance algorithm.

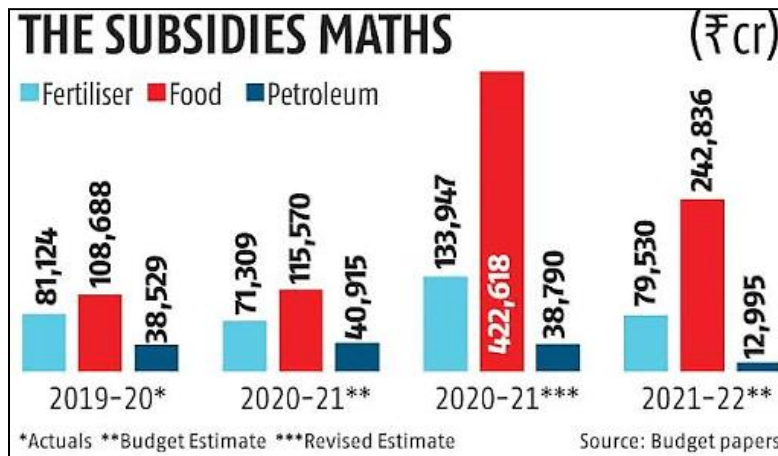


## Performance Grading Index



- ❖ The Department of School Education and Literacy released the Performance Grading Index (PGI) for States/UTs for 2020-21.
- ❖ It is a unique index for evidence based comprehensive analysis of school education system across State/UTs.
- ❖ The Indian Education System is one of the largest in the world with about 14.9 lakh schools, 95 lakh teachers, and nearly 26.5 crore students from varied socio-economic backgrounds.
- ❖ It classified the States/UTs into ten grades in Level 1-10.
- ❖ As per the index, a total of seven States and Union Territories namely Kerala, Punjab, Chandigarh, Maharashtra, Gujarat, Rajasthan, and Andhra Pradesh have attained Level -2 grading in 2020-21.
- ❖ Gujarat, Rajasthan, and Andhra Pradesh are the new entrants with the highest achieved level.

## Fertilizer Subsidy Doubles







- ❖ Cabinet approves a subsidy of ₹51,875 crore to Nitrogen, Phosphorus, Potash and Sulphur for Phosphatic and Potassic fertilizers for the rabi season.
- ❖ Considering the huge increase in the prices of fertilizers in global market, the Centre has 'doubled' the fertilizer subsidy for this rabi season.

### **Child Welfare Police Officer**

- ❖ The Ministry of Home Affairs has asked the States/Union Territories to appoint a Child Welfare Police Officer (CWPO) in every police station.
- ❖ They will exclusively deal with children, either as victims or perpetrators.
- ❖ As per the National Crime Records Bureau, the total number of crimes against children increased from 1,28,531 in 2020 to 1,49,404 in 2021.
- ❖ Madhya Pradesh topped the country with 19,173 cases, Uttar Pradesh stood second with 16,838 cases.
- ❖ A total of 1,402 children were murdered in 1,279 cases reported across the country.
- ❖ As many as 1,15,414 cases of kidnapping and abduction involving 1,18,549 children were reported in 2021.

### **Biggest Ever Coal Mine Auction**

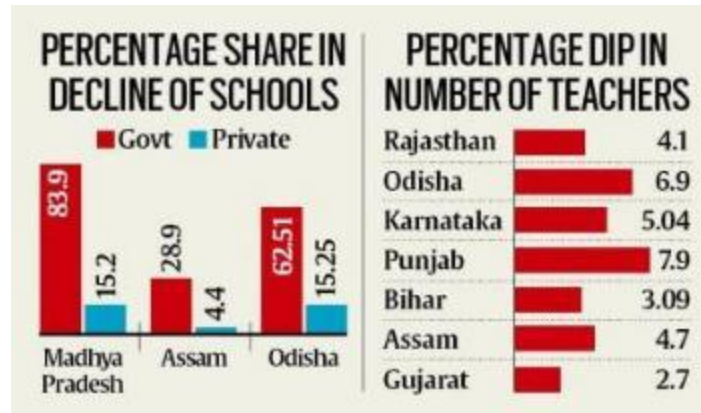
- ❖ The Union Finance Minister launched the biggest-ever coal mine auction of 141 mines.
- ❖ The mines being auctioned are spread across coal/lignite-bearing states of Jharkhand, Chhattisgarh, Odisha, Madhya Pradesh, Maharashtra, West Bengal, Andhra Pradesh, Telangana, Rajasthan, Tamil Nadu, and Bihar.
- ❖ Despite being the world's fourth-largest producer of coal, India is the second-largest importer of the dry-fuel.

### **UDISE+ Report**

- ❖ The Union Education Ministry released the detailed report on Unified District Information System for Education Plus (UDISE+) 2021-22 on school education of India.
- ❖ Unified District Information System for Education (UDISE) was initiated in 2012-13.
- ❖ UDISE+ is an updated version of UDISE, where the data from the schools is collected online and in real-time.



- ❖ UDISE+ was developed by the Department of School Education and Literacy in 2018-19.
- ❖ The total enrolment in school education from primary to higher secondary in 2021-22 is 25.57 crore.
- ❖ This is a 19.36 lakh increase when compared with the 2020-21 UDISE+ data.
- ❖ The total number of enrolment of students belonging to scheduled castes increased from 4.78 Crore in 2020-21 to 4.82 Crore in 2021-22.
- ❖ The scheduled tribe enrolment increased from 2.49 crore in 2020-21 to 2.51 crore in 2021-22.
- ❖ Enrolment by OBC students also increased from 11.35 crore in 2020-21 to 11.48 crore in 2021-22.
- ❖ The performance of GER in higher secondary has significantly improved from 53.8% in 2020-21 to 57.6% in 2021-22.
- ❖ The total enrolment of children with special needs in 2021-22 is 22.67 lakh.
- ❖ This is a 3.45 per cent increase from the 21.91 lakh in 2020-21.
- ❖ In 2021-22, 95.07 lakh teachers are involved in school education. Of these more than half of them are female teachers.
- ❖ The total number of teachers have declined by 1.95 per cent in 2021-22, when compared with the 2020-21 figures.
- ❖ Highest number of enrolment of students in government schools and recruitment of teachers happened in Uttar Pradesh.
- ❖ The Pupil Teacher Ratio in 2021-22 is 26 for primary, 19 for upper primary, 18 for secondary and 27 for higher secondary.
- ❖ In 2021-22, around 12.29 crore girls enrolled in primary to higher secondary education.
- ❖ This is an increase of 8.19 lakh when compared with the 2020-21 report.
- ❖ More than 20,000 schools have been shut down in a year.
- ❖ Only 27% of schools have special toilets for CSWN and more than 49% of these schools have ramps with handrails.
- ❖ Only 44.85% schools had computer facilities and nearly 34% have internet connectivity.
- ❖ Around 77% schools have playground facilities in 2021-22.
- ❖ Nearly 27.7% schools had kitchen garden in 2021-22.
- ❖ 98 lakh schools (33%) have been certified under Fit India Schools.



### 50th Chief Justice of India



- ❖ Justice D Y Chandrachud took charge as the 50th Chief Justice of India.
- ❖ He will serve as CJI for a period of two years, succeeding Uday Umesh Lalit.
- ❖ He has been part of several Constitution benches and landmark verdicts of the top court including on matters relating to the Ayodhya land dispute, the right to privacy and adultery.
- ❖ His father YV Chandrachud was also served as CJI.
- ❖ He and his father are the only father-son duo to have reached the position of the CJI in the country's judicial history.

### 22nd Law Commission

- ❖ After two and a half years, the 22nd Law Commission of India has been constituted with Justice (retd) Rituraj Awasthi as its head.
- ❖ Justice Awasthi took over as CJ of the Karnataka High Court in October 2021, and retired in July this year.
- ❖ He headed the Bench that upheld the state government's restriction on women and girls wearing the hijab in educational institutions.

- ❖ Law Commission of India is a non-statutory body that is constituted by a notification of the Government of India.
- ❖ The Law Commission was first constituted in 1955, and has so far submitted 277 reports.
- ❖ The tenure of the 21st Law Commission, which was headed by former Supreme Court judge Justice B S Chauhan, came to an end on August 31 2018.



### **India's First Floating Financial Literacy Camp**

- ❖ Recently, India Post Payments Bank (IPPB) conducted India's First Floating Financial Literacy Camp.
- ❖ This initiative called 'Niveshak Didi' to promote Financial Literacy 'By the women, for the women', in Srinagar.
- ❖ It is launched by IPPB, in collaboration with Investor Education and Protection Fund Authority (IEPFA) under the aegis of Ministry of Corporate Affairs.



## India's G20 presidency

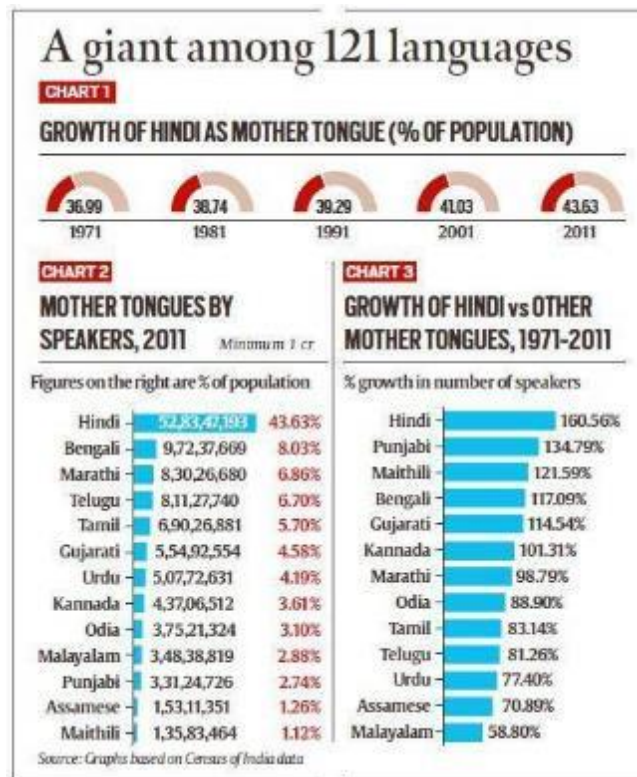


- ❖ PM unveiled the logo, theme and website of India's G20 presidency.
- ❖ The logo, theme and website of India's G20 presidency reflected the country's "message and overarching priorities" to the world.
- ❖ India will assume the presidency from the current chair Indonesia on December 1.
- ❖ The G20 or Group of 20 is an intergovernmental forum of the world's major developed and developing economies.
- ❖ It is representing around 85% of the global GDP, over 75% of the global trade, and about two-thirds of the world population.

## Mother Tongue Survey

- ❖ The Ministry of Home Affairs has completed the Mother Tongue Survey of India (MTSI) with field videography of the country's 576 languages.
- ❖ It aims to conduct surveys of mother tongues that are returned consistently across 2 or more Census decades.
- ❖ It also records the linguistic features of select languages.
- ❖ The National Informatics Centre (NIC) and the National Film Development Corporation (NFDC) is currently documenting and preserving the linguistic data of the surveyed mother tongues in video-audio files.
- ❖ As per an analysis of 2011 linguistic census data, more than 19,500 languages or dialects are spoken in India as mother tongues.
- ❖ These were grouped into 121 mother tongues after the census data underwent linguistic scrutiny, editing and rationalisation.
- ❖ 43.6 per cent of the population (52.8 crore people) declared Hindi to be their mother tongue.







- ❖ The second highest spoken mother tongue is Bengali.
- ❖ 9.7 crore people or 8 per cent of the population speak the language.



### Supreme Court on Rajiv Gandhi Convicts

- ❖ The Supreme Court, on November 11, ordered for the immediate release of Six convicts of Rajiv Gandhi case.
- ❖ They are serving life sentence for more than three decades in the Rajiv Gandhi assassination case.
- ❖ The six convicts are: Nalini, Ravichandran, Jayakumar, Suthenthiraraja @ Santhan, Murugan and Robert Pius.
- ❖ The Court accepted the petitions of the jailed convicts saying that their conduct in the prison have been found satisfactory and they have been in prison for a long time.
- ❖ Its decision demonstrates that governors who are appointed cannot interfere with decisions of elected governments.
- ❖ A Bench of Justices B. R. Gavai and B. V. Nagarathna noted that the Tamil Nadu State Cabinet had recommended their premature release to the Governor under Article 161 in September 2018.
- ❖ The Governor, instead of taking a call, had passed on their files to the Centre.

- ❖ The Governor was bound by the advice of the State Cabinet in cases of murder as their convictions under the now-lapsed Terrorism and Disruptive Activities (Prevention) Act was set aside by the apex court.
- ❖ The Bench referred to the case of their former co-convict A.G. Perarivalan.
- ❖ He was granted premature release by the apex court on May 18 (2022) in exercise of its extraordinary powers under Article 142 of the Constitution (For doing complete justice).
- ❖ The May judgment had concluded that the State of Tamil Nadu, and not the Union, had exclusive power to recommend remission in the case.
- ❖ The TADA or Terrorist and Disruptive Activities (Prevention) Act trial court had initially sentenced 26 people to death in the case.
- ❖ In 1999, a few years after the TADA Act was allowed to lapse, the Supreme Court upheld the conviction of only seven people, releasing all others.
- ❖ The SC order observed none of those convicted was part of the nucleus of the assassination team.

|  |  |  |  |   |  |
|--|--|--|--|---|--|
|    |  |  |    |  |    |
| Nalini Sriharan  | Ravichandran   | Murugan  | Santhan  | Robert Payas  | Jayakumar  |
| <b>PREMATURE RELEASE</b>   |  |  |  |   |  |
| <ul style="list-style-type: none"> <li>➤ Rajiv Gandhi was assassinated on May 21, 1991, at Sriperumbudur in Tamil Nadu by a woman suicide bomber of the Liberation Tigers of Tamil Eelam (LTTE) group from neighbouring Sri Lanka</li> <li>➤ Seven convicts were sentenced to death for their role in the killing</li> </ul> |  |  | <ul style="list-style-type: none"> <li>➤ In 2001, Nalini Sriharan's sentence was reduced to a life term</li> <li>➤ The sentence of six more convicts was also commuted in 2014. The same year, then Tamil Nadu chief minister J. Jayalalitha initiated moves to free them</li> </ul> |   | <ul style="list-style-type: none"> <li>➤ In May this year, the Supreme Court used its extraordinary powers to free the seventh convict, <b>A.G. Perarivalan</b></li> </ul>  |

### National Bio Energy Programme

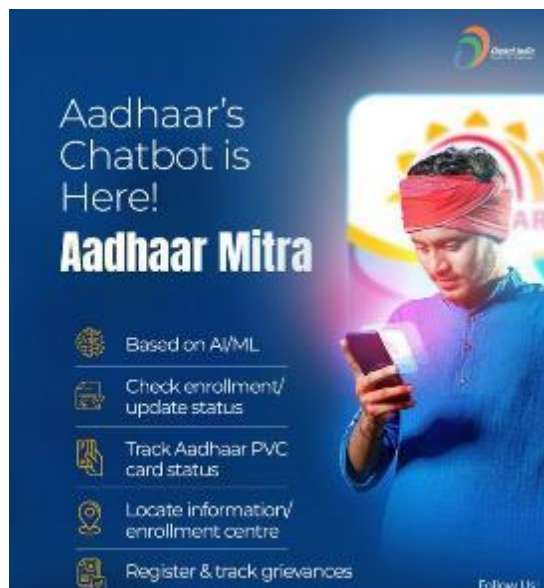
- ❖ The National Bioenergy Programme will be implemented in 2 phases.
- ❖ The programme will have following three sub-schemes.
  - Waste to Energy Programme
  - Biomass Programme
  - Biogas Programme
- ❖ India is capable of generating over 750 million metric tonnes of biomass each year.



### **Radhakrishnan Committee**

- ❖ The Ministry of Education has set up a high-level panel to strengthen the assessment and accreditation of higher educational institutions.
- ❖ The panel will be headed by Dr K Radhakrishnan from IIT Kanpur.
- ❖ He is also the chairperson of the Standing Committee of IIT Council.

### **Aadhaar Mitra**





- ❖ The Unique Identification Authority of India (UIDAI) presented the brand-new AI/ML chatbot Aadhaar Mitra.
- ❖ It aims to facilitate citizens' usage of the services.
- ❖ Both Hindi and English are available for the chatbot.
- ❖ For the purpose of teaching viewers, it also offers the option of viewing related videos on specific themes.

### **Army Commanders' Conference**

- ❖ The Army Commanders' Conference held in New Delhi
- ❖ It is an apex-level biannual event (occurs once in a 6 months).
- ❖ It is an institutional platform for conceptual level deliberations and culminating in making important policy decisions for the Indian Army.



### **Transport 4 All Challenge Stage 2**

- ❖ The Union Housing and Urban Affairs Ministry launched the "Transport 4 All Challenge" Stage 2.
- ❖ It aims to ease the mobility experience of Indian citizens.
- ❖ The challenge seeks to promote digital innovation in formal as well as informal public transportation.
- ❖ The challenge has 3 stages viz. Problem Identification, Solution Generation and Pilot Testing.
- ❖ More than 130 cities have taken part in the Stage I of the challenge, which was launched on April 15, 2021.
- ❖ 46 cities that qualified for Stage II used the survey data to develop more than 165 problem statement.
- ❖ Stage-2 of the challenge is currently open for startups to develop solutions for problems identified by the cities.

## **Citizen Perception Survey - 2022**

- ❖ It is conducted as part of the Ease of Living Index.
- ❖ It was conducted for the first time in 2020.
- ❖ The purpose of the Survey is to directly capture the perception of citizens regarding the quality of life in their cities.
- ❖ It captures citizens' perceptiveness on public transport, education facilities, health care services, water availability, cost of living, employment opportunities, among others.
- ❖ The Ease of Living Index is a comprehensive assessment that evaluates cities across India based on their quality of life, economic ability and sustainability.
- ❖ The third round of this index was included as part of the Urban Outcomes Framework 2022.



## **Kamikaze Drones**

- ❖ Indian Army has started the process of acquiring 120 loitering munitions and 10 aerial targeting systems.
- ❖ Indian Army is set to buy Kamikaze drones.
- ❖ It aims to strengthen its military power along with the border with China.
- ❖ The aerial targeting systems must meet the specified requirements, which call for a 100 km range.
- ❖ Kamikaze drones are the same drones that were used in the Russia-Ukraine war.
- ❖ Loiter munitions can be launched in a manner similar to a drone.
- ❖ They can also stay in the air for a longer time, surveying a designated area and seeking targets.
- ❖ Once a target is identified and locked on, they act as a missile to destroy the target aimed.

- ❖ Notably, loiter munitions are smaller in size, cheaper and less complex systems than combat or armed drones.
- ❖ Indian Army also aims to purchase a variety of additional systems, including 100 K9 Vajra howtizers and UAV's.



### **Fodder-Centric Farmer Producer Organizations**

- ❖ Ministry of Fisheries, Animal Husbandry and Dairying proposed the setting up of fodder-centric Farmer Producer Organisations (FPOs) in 2020.
- ❖ It requested the Union Agriculture Ministry to permit the establishment of fodder-centric FPOs under the central scheme “Formation and Promotion of 10,000 new FPOs”.
- ❖ It aims to address the fodder deficit situation in India.
- ❖ National Dairy Development Board has been designated as the implementing agency for this scheme.
- ❖ It is setting a target of 100 such FPOs in 2022-23.
- ❖ Currently, fodder deficit in India is 12 to 15 per cent for green fodder, 25-26 percent for dry fodder and 36 per cent for concentrated fodder.



### South's first Vande Bharat

- ❖ Prime Minister flagged off the Chennai-Mysuru Vande Bharat Express at Kranthiveera Sangolli Rayanna (KSR) Railway Station in Bengaluru.
- ❖ This is the fifth Vande Bharat Express in the country and the first such train in south India.
- ❖ The train connects Mysuru and Chennai via Bengaluru.
- ❖ He also flagged Bharat Gaurav Kashi Darshan Train at the KSR railway station.
- ❖ Karnataka is the first state to take up this train under the Bharat Gaurav scheme.
- ❖ This train covers holy places, including Varanasi, Ayodhya and Prayagraj.

### India's first national repository for life science data

- ❖ India's first National Repository for Life Science data was unveiled recently.
- ❖ The National Repository for Life Science data was generated from publicly-funded research in India.
- ❖ It was established at the Regional Biotechnology Center Faridabad, Haryana.
- ❖ It has a storage capacity of four petabytes and is also home to the 'Brahm' High-Performance Computing facility.

### NPR databases and websites under IT Act



- ❖ The websites and applications related to the decennial Census exercise and the National Population Register (NPR) were notified as “protected system” or “Critical Information Infrastructure” under the Information Technology Act, 2008.



- ❖ The notification means that any tampering or unauthorised access to the data associated with Census applications, NPR database or the data centres of the Registrar General of India (RGI) will be punishable by ten years imprisonment.
- ❖ Section 70 of the IT Act states that the appropriate Government may, by notification in the Official Gazette, declare any computer resource which directly or indirectly affects the facility of Critical Information Infrastructure, to be a protected system.

### **Aadhaar Rules**

- ❖ The Central Government has amended Aadhaar regulations.
- ❖ It is advising card holders to update documents supporting their information at least once every 10 years.
- ❖ Updating documents is not mandatory but would be encouraged.
- ❖ The users may update their documents to ensure the continued accuracy of their information in the Central Identities Data Repository.

### **'Eat Right Station' – Bhopal**

- ❖ The Food Safety and Standard Association of India (FSSAI) awarded Bhopal Railway Station a 4-star 'Eat Right Station' certification for providing "high-quality, nutritious food to passengers".
- ❖ Chandigarh Railway station was the fifth Indian railway station to receive a 5-star 'Eat Right Station' certification.
- ❖ The other railway stations with this certification include Anand Vihar Terminal Railway Station; (Delhi), Chhatrapati Shivaji Terminus; (Mumbai), Mumbai Central Railway Station; (Mumbai), and Vadodara Railway Station.
- ❖ 'Eat Right India' movement is a large-scale effort by FSSAI to transform the country's food system to ensure safe, healthy and sustainable food for all Indians.

### **India's first Hydrogen Fuel Cell Catamaran Vessel**

- ❖ Cochin Shipyard has signed a Memorandum of Understanding (MoU) with the Inland Waterways Authority of India to build the country's first hydrogen fuel cell catamaran vessel for Varanasi in UP.
- ❖ It will pave the way for the reduction in the usage of fossil fuels and thereby further reducing the emissions in India's national waterways.



### **Grid Controller of India Limited**

- ❖ India's national grid operator Power System Operation Corporation Limited (POSOCO) was renamed as Grid Controller of India Limited.
- ❖ It is a wholly owned central government enterprise that comes under the aegis of the Ministry of Power.
- ❖ Grid-India, as a separate company, was given the load despatch functions.
- ❖ It oversees the operations of the national load despatch centre (NLDC) and 5 regional load despatch centres (RLDCs).
- ❖ The NLDC is the apex body that ensures the integrated operation of national power system.

### **Indian Army's Staff College – Women Officer**

- ❖ For the first time in the history of the Indian Army, 6 women officers will attend the prestigious Defence Services Staff College (DSSC).
- ❖ It is a move that came after the grant of a Permanent Commission to women officers by the Indian Army in 2021
- ❖ The other courses in the Indian Army - National Defence College, High Command, and Higher Defence Management - are all nominated.
- ❖ The selection to the Defence Services Staff College (DSSC) is based on a competitive examination.
- ❖ DSSC Course is the only course conducted by the Indian Army.
- ❖ The Defence Services Staff College was established in 1905 near Nashik.
- ❖ In 1907, it moved to its permanent location at Quetta (now Pakistan).

- ❖ After the partition of India and Pakistan in 1947, it was moved into Wellington Cantonment in The Nilgiris District of Tamil Nadu.
- ❖ It has been affiliated to Madras University.

### 4th phase of Digital Shakti Campaign



- ❖ The National Commission for Women launched it in collaboration with CyberPeace Foundation and Meta.
- ❖ It is focused on making women digitally skilled and aware to stand up against any illegal or inappropriate activity online.
- ❖ It is a pan-India project on digitally empowering and skilling women and girls in the cyberspace.

### Arun Goel

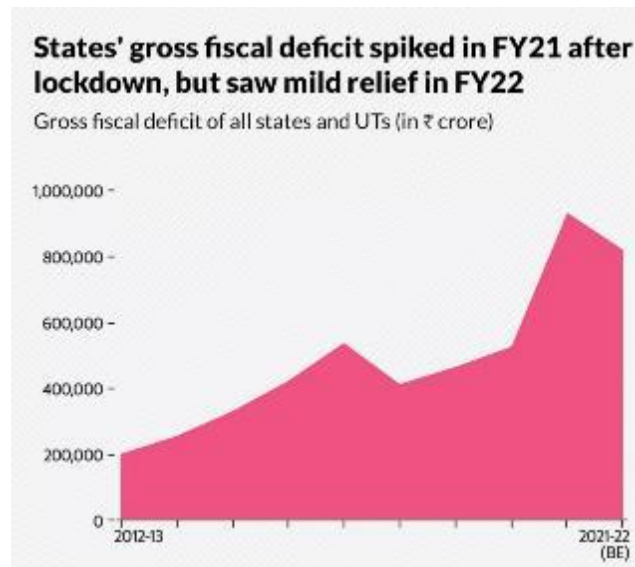
- ❖ President Droupadi Murmu has appointed retired IAS Arun Goel as the Election Commissioner (EC) in the Election Commission.
- ❖ A person can hold the office of an EC or CEC for six years or till the age of 65, whichever is earlier.
- ❖ A Punjab cadre officer of the 1985 batch, Goel will join Chief Election Commissioner Rajiv Kumar and Election Commissioner Anup Chandra Pandey in the poll panel.
- ❖ Goel will be in office till December 2027.

### Nicobari Hodi Craft

- ❖ Andaman & Nicobar filed its first application for the Geographical Indication tag for the Nicobari hodi craft.
- ❖ The hodi is the Nicobari tribe's traditional craft.

- ❖ It is an outrigger canoe, very commonly operated in the Nicobar group of islands.
- ❖ The technical skills for building a hodi are based on indigenous knowledge inherited by the Nicobarese from their forefathers.
- ❖ The hodi is built using either locally available trees or from nearby islands, and its design varies slightly from island to island.
- ❖ Hodi are used for transporting people and goods from one island to another, [for] sending coconuts, [for] fishing and racing purposes.
- ❖ An application seeking GI tag for the Banaras' thandai (a beverage made with milk, dry fruits and spices) was the 1,000th application in Chennai GI office.

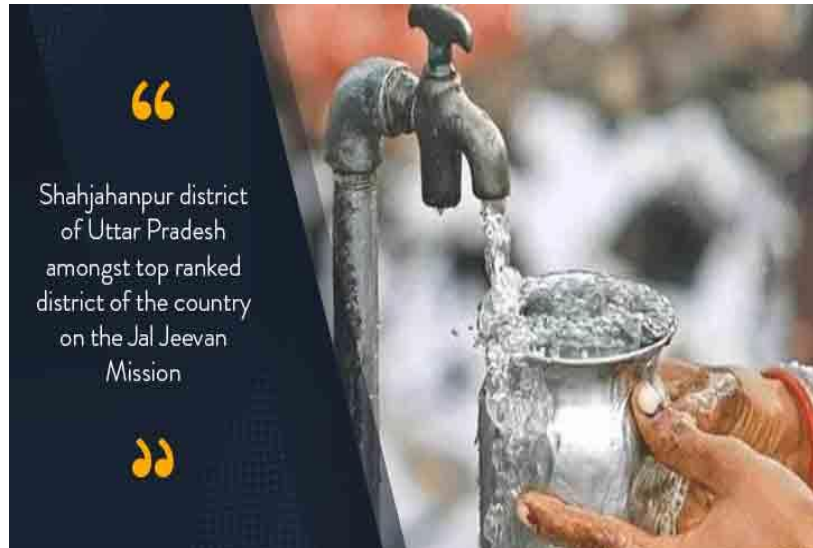
### **Handbook of Statistics on Indian States 2021-22**



- ❖ The Reserve Bank of India released the seventh edition of its statistical publication titled “Handbook of Statistics on Indian States 2021-22”.
- ❖ It provides comprehensive data about the regional economies of India.
- ❖ Two new sections have been included in the recent edition – health and environment.
- ❖ The macroeconomic outlook is positive in the current fiscal.
- ❖ However, India is still impacted by global headwinds.
- ❖ Karnataka has the highest total installed capacity of grid-interactive renewable power among all states in March 2021.
- ❖ It had total installed capacity of 15,463 megawatts (MW).
- ❖ It is followed by Tamil Nadu (15,225 MW), Gujarat (13,153 MW) and Maharashtra (10,267 MW).



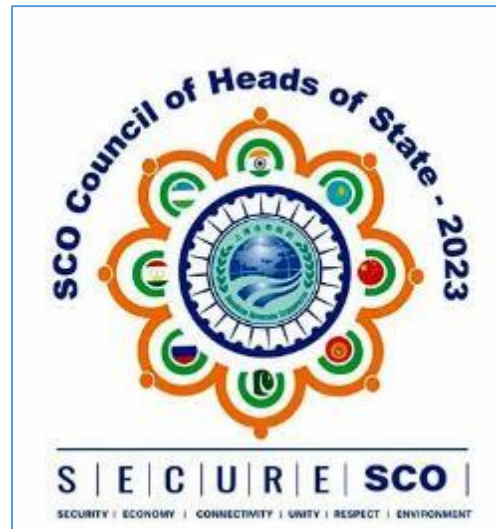
## **Jal Jeevan Mission October ranking**



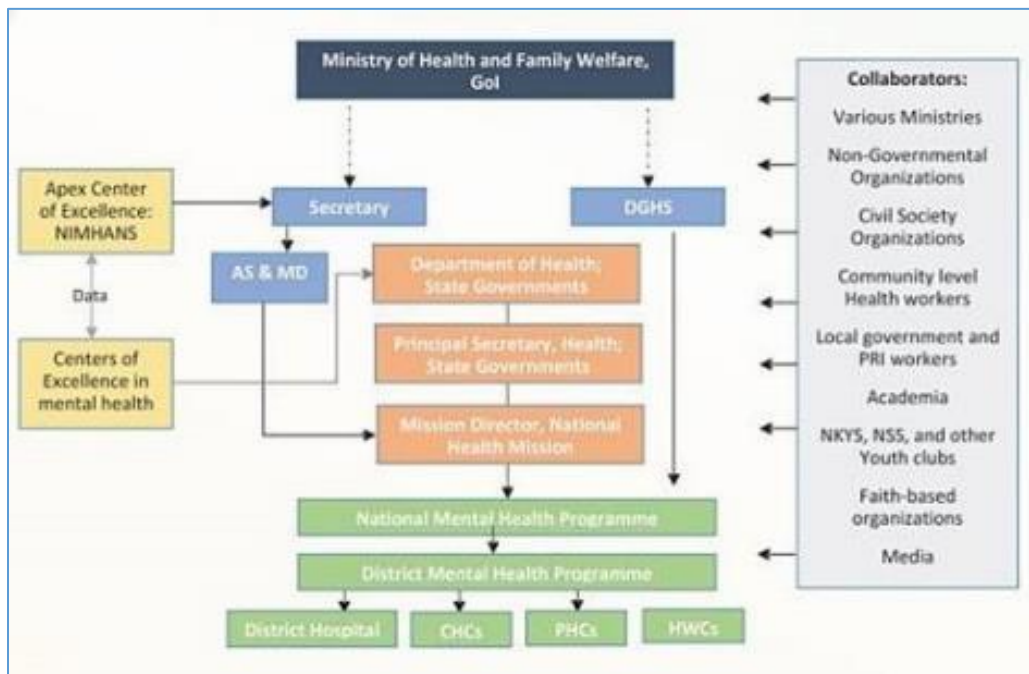
- ❖ Several districts of Uttar Pradesh have performed very well in the October month 2022 ranking of the Jal Jeevan Mission.
- ❖ Top 3 Front Runners are Ambala, Rohtak and Faridabad.
- ❖ Ranipet got 3<sup>rd</sup> rank in High Achievers.
- ❖ Mayiladuthurai got 3<sup>rd</sup> rank in Achievers
- ❖ Namakkal topped in Graduating to High Achievers
- ❖ Fastest moving districts within the Performers categories: Mon (Nagaland), East Jaintia Hills (Meghalaya) and Mahoba (Uttar Pradesh).

## **Website and Theme of SCO 2023**

- ❖ India has launched the official website of the Shanghai Cooperation Organisation (SCO) as it will host the next SCO summit as a chairman of organisation in 2023.
- ❖ The website highlights the events that will be undertaken under the chairmanship of India next year.
- ❖ The theme of the event is “For a SECURE SCO”.
- ❖ ‘S’ for security for citizens, ‘E’ for economic development, ‘C’ for connectivity in the region, ‘U’ for unity, ‘R’ for respect of sovereignty and integrity, and ‘E’ for environment protection.
- ❖ India received the SCO rotating presidency in Samarkand, Uzbekistan.
- ❖ India will hold the presidency of the grouping for a year until September 2023.



## India's first National Suicide Prevention Strategy



- ❖ The Ministry of Health and Family Welfare unveiled the National Suicide Prevention Strategy.
- ❖ This is the first-of-its-kind policy formulated by the government to prevent suicides as a public health priority.
- ❖ The policy that will set the stage for promotion of mental health and prevention of suicides in the coming decade.

- ❖ The goal of the strategy is to reduce suicide mortality in the country by 10 per cent by 2030.
- ❖ India's contribution to global suicide now stands close to 37 percent and 24.3 percent among women and men respectively.

### **National Centre of Excellence for Green Port & Shipping**

- ❖ The Union Ministry of Ports, Shipping and Waterways announced India's first National Centre of Excellence for Green Port & Shipping (NCoEGPS).
- ❖ This will be working under the framework of the Sagarmala programme of the MoPSW.
- ❖ It aims to develop a regulatory framework and alternate technology adoption road map for Green Shipping to foster carbon neutrality and circular economy (CE) in shipping sector in India.
- ❖ The ports have also aimed to reduce Carbon emissions per ton of cargo handled by 30% by 2030.

### **Kameng Hydropower Station**

- ❖ Prime Minister dedicated the 600 MW Kameng Hydro Power Station to the nation.
- ❖ It was developed by the state-owned North Eastern Electric Power Corporation (NEEPCO).
- ❖ It is situated in Arunachal Pradesh's West Kameng district.
- ❖ This makes use of the flows from Bichom and Tenga rivers – the tributaries of River Kameng.
- ❖ Arunachal Pradesh accounts for 40% of India's hydropower potential.
- ❖ Therefore, this state is considered the “powerhouse of India”.



## Toilets 2.0 campaign

- ❖ Union Minister of Housing and Urban Affairs Hardeep Singh Puri launched Toilets 2.0 campaign at Bengaluru.
- ❖ The campaign aims to change the face of public and community toilets in urban India through collective action involving citizens and Urban Local Bodies.
- ❖ The campaign has five thematic areas:
  - 'People for Toilets' that will focus on cleaning and maintaining community and public toilets,
  - 'Partners for Toilets' aimed at the adoption of public toilets,
  - A design challenge under the 'Design Toilets' theme,
  - 'Rate your Toilet' for the promotion of user feedback to improve public toilets and
  - 'My thoughts - Our Toilets' that will seek to gather public opinion for toilets.



## Integrated fire power exercise

- ❖ South Western Command of the Indian Army conducted the Integrated Fire Power Exercise, 'Shatrunash' in the Thar desert of Rajasthan.
- ❖ The exercise witnessed the use of multifarious firing platforms in an integrated manner involving both ground & aerial manoeuvres.

## 53 hours Challenge

- ❖ Union Minister for Information and Broadcasting and Youth Affairs & Sports Anurag Singh Thakur has inaugurated '53 Hours Challenge' for '75 Creative Minds Tomorrow'.
- ❖ This is the second edition of 75 Creative Minds of Tomorrow.
- ❖ Dear Diary, a film by Team Purple, was the winning film of the 75 Creative Minds of Tomorrow programme's 53-Hour Challenge.



### **International Gita Mahotsav**

- ❖ International Gita Mahotsav was taking place in Kurukshetra, Haryana.
- ❖ President Draupadi Murmu formally inaugurated the main programs at the Geeta Yagya.
- ❖ Haryana Government has been celebrating Gita Mahotsav festival since the year 1989 in Kurukshetra.
- ❖ In the year 2016, the Haryana decided to celebrate the festival of Gita Jayanti as International Gita Mahotsav.
- ❖ In this festival of the year 2022, Nepal will be the partner country and Madhya Pradesh will be the partner state.



## INTERNATIONAL

### G20 Religion Forum

- ❖ The G20 Interfaith Forum (IF20) will be held in the United Arab Emirates rather than Indonesia.
- ❖ It was founded to bring together religious leaders, faith-based organizations, and cultural organizations from all sectors to advance humanitarian values and understanding worldwide.
- ❖ This will focus on “Engaging Faith Communities: G20 Agendas and Beyond”.



### FATF Grey List



- ❖ The Financial Action Task Force (FATF) has removed Pakistan from the list of countries under “increased monitoring” (Grey List).



- ❖ Pakistan has been removed from the list after four years.
- ❖ It was first put on the list in 2008, removed in 2009, added again in 2018.
- ❖ FATF is the international watchdog on terror financing and money laundering.
- ❖ It also aims to counter the financing of proliferation of weapons of mass destruction.
- ❖ It was set up in 1989 out of a G-7 meeting of developed nations in Paris.
- ❖ India joined with 'observer' status in 2006 and became a full member of FATF in 2010.

### **UNSC's Counter-Terror Meet**

- ❖ The two-day United Nation Security Council's (UNSC) meeting on counter-terrorism held in India.
- ❖ It focused on dealing with use of internet, new payment mechanism and drones by terrorists.
- ❖ The overarching theme of the meeting would be 'countering the use of new and emerging technologies for terrorist purposes.'

### **Heads of Asian Coast Guard Agencies Meeting**

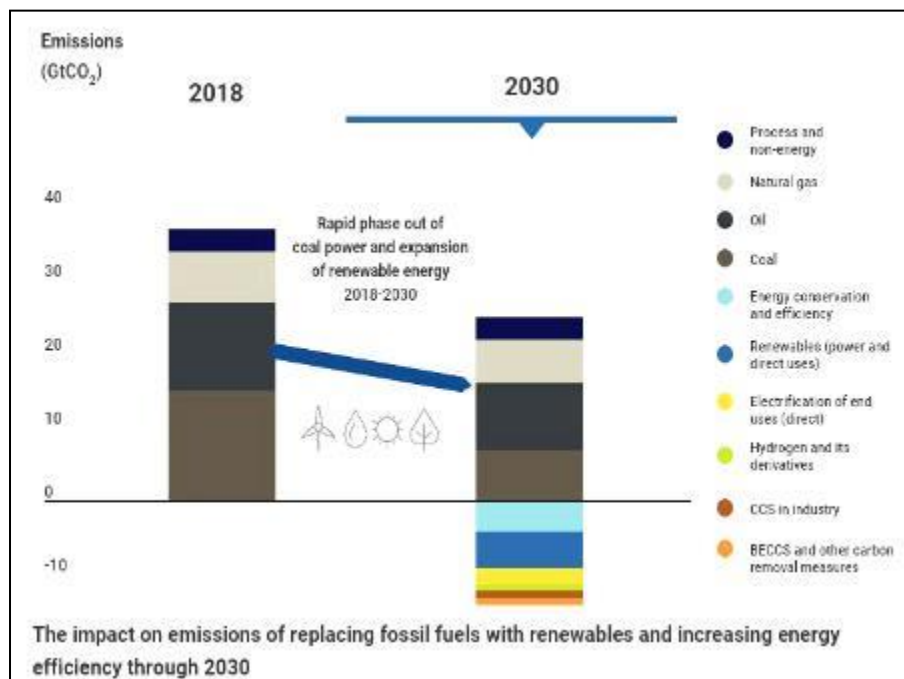
- ❖ 18<sup>th</sup> Heads of Asian Coast Guard Agencies Meeting (HACGAM) held in New Delhi.
- ❖ A total of 55 representatives from 18 countries and following two International Organisations are participating in the meeting.
  - Regional Cooperation Agreement on Combating Piracy and Armed Robbery against Ships in Asia Information Sharing Centre (ReCAAP ISC).
  - United Nations Office on Drugs & Crime- Global Maritime Crime Programme (UNODC-GMCP).

### **Global Investment Trend Monitor Report – 2022**

- ❖ The UN Conference on Trade and Development (UNCTAD) Investment Trends Monitor was published recently.
- ❖ The number of climate mitigation and adaptation investment projects declined 7-12 per cent as the world grapples with an economic slowdown.
- ❖ The gap between mitigation and adaptation financing was also huge this year.
- ❖ Over 700 renewable energy investment projects were located in Europe, accounting for more than half of all projects.

## World Energy Outlook 2022

- ❖ The World Energy Outlook 2022 report was released by the International Energy Agency to provide insights into the implications of the global energy shock.
- ❖ Russia has been the world's top exporter of fossil fuels.
- ❖ Natural gas prices have reached unprecedented levels.
- ❖ High energy prices have also worsened food insecurity in many developing countries.
- ❖ Around 75 million people who have recently gained access to electricity will be unable to pay their energy bills.
- ❖ Over 100 million people are likely to increase their dependence on firewood for cooking instead of adopting cleaner and safer solutions.



## Dakar International Forum on Peace and Security

- ❖ The 8th edition of the Dakar International Forum on Peace and Security held in Dakar, Senegal.
- ❖ This is being held annually since 2014.
- ❖ The Forum has become an important place for policy discussions on sovereignty and security aspects of Africa.
- ❖ This is the first time that India is participating in the Forum at a Ministerial level.



## Global TB Report 2022

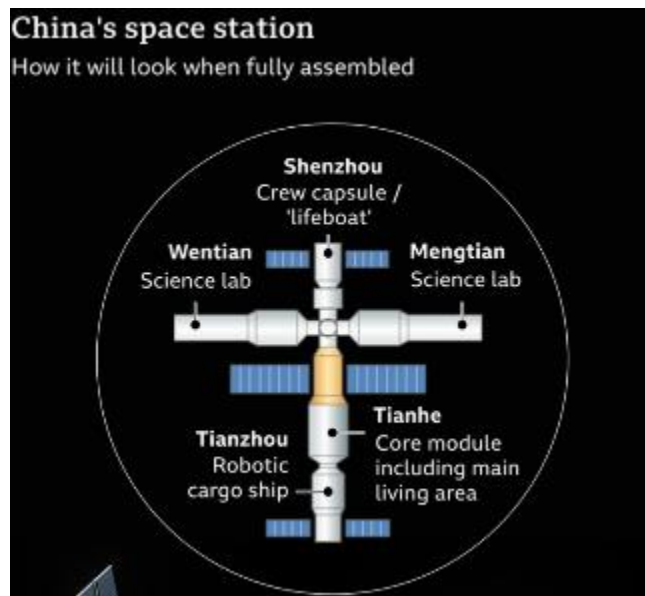
- ❖ The World Health Organization released the Global TB Report 2022.
- ❖ It is released every year to provide a comprehensive assessment of the tuberculosis epidemic and the progress of countries in preventing, diagnosing and treating the disease at the global, regional and national levels.
- ❖ Over 10.6 million people fell ill because of tuberculosis in 2021.
- ❖ This is a 4.5 per cent increase when compared with 2020 figures.
- ❖ 6 million people have lost their lives to tuberculosis.
- ❖ Of these, 187,000 are HIV patients.
- ❖ The burden of drug-resistant tuberculosis (DR-TB) has risen by 3 per cent between 2020 and 2021.
- ❖ Last year, 450 000 new cases of rifampicin-resistant TB (RR-TB) were recorded.
- ❖ The number of reported cases of TB fell from 7.1 million in 2019 to 5.8 million in 2020.
- ❖ The situation improved in 2021, with 6.4 million people reporting TB.
- ❖ The global spending on essential TB services has declined from 6 billion USD in 2019 to 5.4 billion USD in 2021.
- ❖ This is less than 50 per cent of the global target of 13 billion USD annually by 2022.
- ❖ Over the past 10 years, 79 per cent of the funding for TB services in 2021 was from domestic sources.



## Tiangong space station

- ❖ The final module of Tiangong space station “Mengtian”, was successfully launched by China.
- ❖ It is the third and final module Tiangong space station

- ❖ The module is expected to be operational for 10 years or more.
- ❖ The name “Mengtian” means “dreaming of the heavens”.
- ❖ This module, once docked on the core module Tianhe, will complete the T-shaped structure of the space station along with the other module Wentian,
- ❖ Wentian was launched in July 2022.
- ❖ The Tiangong space station is currently being constructed by China and operated by the China Manned Space Agency.
- ❖ It is operated in the low Earth Orbit between 340 and 450 km above the surface.
- ❖ The mass of this space station is around one-fifth of the mass of the International Space Station.
- ❖ Its size is almost equivalent to the decommissioned Russian Mir Space Station.



### **Forcibly displaced population**

- ❖ As per the United Nations High Commissioner for Refugees (UNHCR) report, one in 77 people on Earth is forcibly displaced.
- ❖ The number of people forcibly displaced from their homes due to persecution, conflict, violence, human rights violations and events seriously disturbing public order globally surged to 103 million in the first half of 2022.
- ❖ The total number of refugees and people in need of international protection worldwide rose by 24 per cent from 25.7 million at the end of 2021 to 32 million by mid-2022.
- ❖ At the end of June this year, more than half (56 per cent) of all refugees were Syrian, Venezuelan or Ukrainian.



### **First Trilateral Exercise**

- ❖ The first edition of the India-Mozambique-Tanzania Trilateral Exercise commenced at Tanzania.
- ❖ The exercise has three main objectives including capability development to address common threats through training and sharing of best practices, enhancing interoperability, and strengthening maritime cooperation.



### **GCOS conference**

- ❖ The 'Global Climate Observing System (GCOS)' conference was organised in Darmstadt, Germany.
- ❖ It was hosted by Exploitation of Meteorological Satellites (EUMETSAT).
- ❖ It co-sponsored by the World Meteorological Organization (WMO), Intergovernmental Oceanographic Commission of UNESCO, UNEP, and International Science Council.

- ❖ As per the declaration of the conference, sustainable and long-term funding is essential to ensure the continuity and expansion of observations.



### **Black Sea Grain Initiative**



- ❖ Russia recently came out of the Black Sea Grain Deal.
- ❖ It was launched to mitigate food inflation caused by conflict in Ukraine.
- ❖ It was an agreement between Russia and Ukraine with Turkey and the United Nations.
- ❖ It sought to create a safe passage of food grains exported from Ukraine, which is currently in war with Russia.
- ❖ Under this agreement, export of grain, food and fertilizers will be allowed to resume from Ukraine via a “safe maritime humanitarian corridor” from three key Ukrainian ports i.e., Chornomorsk, Odesa, and Yuzhny/Pivdennyi.
- ❖ Black Sea Grain deal was set to expire on November 19, 2022.
- ❖ The renewal negotiations were led by the United Nations throughout October 2022.
- ❖ However, Russia pulled out of this agreement on October 29 due to drone attack on its naval ships in the port of Sevastopol.

## Israel elections

- ❖ The Former Prime Minister Benjamin Netanyahu has won Israeli election, and returning to power.
- ❖ His bloc got around 90.7% of votes and got 65 out of 120 seats.
- ❖ Netanyahu is expected to form the country's most right-wing government in history.
- ❖ Israel held its fifth election in four years.
- ❖ Netanyahu is an Israel's longest-serving leader.
- ❖ He was ousted in 2021 after 12 consecutive years in power.

## Malabar Naval Exercise 2022

- ❖ India is participating in 26<sup>th</sup> International Malabar Naval Exercise which begins in Japan.
- ❖ Australia, Japan and the USA are also participating in the Naval Exercise.
- ❖ The MALABAR exercise was initiated in 1992 between the navies of India and the United States.
- ❖ Japan became a permanent member of the exercise in 2015.



## World Travel Market (WTM) 2022

- ❖ The World Travel Market is one of the largest international travel exhibitions, held in London.
- ❖ India's participation is significant to step up the recovery of Inbound tourism to the pre-pandemic level.
- ❖ The theme of this year's exhibition is 'The Future of Travel Starts Now'.
- ❖ Kerala Tourism bags top honours at the Global Responsible Tourism Awards 2022.



## **International Drought Resilience Alliance**



- ❖ The International Drought Resilience Alliance (IDRA) was launched in the COP27 to the UNFCCC.
- ❖ Spain and Senegal jointly launched the IDRA.
- ❖ It aims to promote cooperation to increase preparedness against future droughts.
- ❖ The Alliance has 30 countries and 20 organisations.
- ❖ The IDRA was first announced by Spain at the 77<sup>th</sup> session of the UNGA in September this year.
- ❖ The recent occurrences of droughts have been more frequent and severe.
- ❖ The frequency of droughts has surged by 29 per cent since 2000.
- ❖ Over 55 million people are affected each year.

## World's longest passenger train



- ❖ Switzerland is now home to the world's longest passenger train.
- ❖ The train has 100 coaches, measures 1910 metres and consists of 4,550 seats.
- ❖ The train was seen passing through the mountainous landscape in the Swiss Alps on October 29th, 2022.
- ❖ It was announced at an event marking the 175th anniversary of Switzerland's railway system.

## UN resolution on combating Nazism & neo-Nazism



- ❖ India has voted in favour of the Russia-sponsored draft resolution in the UN on 'Combating glorification of Nazism, neo-Nazism.
- ❖ It also includes other practices that contribute to fuelling contemporary forms of racism, racial discrimination, xenophobia and related intolerance'.
- ❖ The draft resolution put to vote at the UN General Assembly was backed by 105 countries including India.
- ❖ Fifty-Two states (largely NATO and European states) voted against, while 15 states abstained.

## 2nd BIMSTEC Agriculture Ministers meeting

- ❖ India hosted the 2nd BIMSTEC Agriculture Ministers meeting under the chairmanship of Union Agriculture Minister Narendra Singh Tomar.
- ❖ Agriculture ministers of Bhutan, Bangladesh, Nepal, Myanmar, Sri Lanka and Thailand participated in the meeting.
- ❖ It adopted the Action Plan for Strengthening BIMSTEC Agricultural Cooperation (2023-2027).
- ❖ BIMSTEC was established in the year 1997.
- ❖ It includes five countries of South Asia - Bangladesh, Bhutan, India, Nepal, Sri Lanka and two countries of South-East Asia – Myanmar and Thailand.



## India-ASEAN relationship

- ❖ The year 2022 has been declared as the ASEAN-India Friendship year, as ASEAN and India commemorate 30 years of partnership.
- ❖ India was initially made a sectoral partner by ASEAN in 1992.
- ❖ In 2002, the relationship was further upgraded to Summit level.
- ❖ And finally, in 2012 it was elevated to Strategic partnership.







### **19<sup>th</sup> ASEAN-India Summit**

- ❖ The Vice President led delegates took part in the 19th ASEAN-India summit at Phnom Penh, Cambodia.
- ❖ ASEAN and India hold annual summits since 2002 to elevate political, security, economic and socio-cultural ties.
- ❖ The Vice President also addressed the 17th East Asia Summit at Phnom Penh, Cambodia.
- ❖ The East Asia Summit was held as part of the 40th and 41st ASEAN Summits in Phnom Penh.
- ❖ ASEAN has agreed in principle to admit East Timor as the group's 11th member.
- ❖ It would be the first new member of the regional grouping in more than two decades, since Cambodia was admitted in 1999.
- ❖ East Timor was previously part of Indonesian territory.
- ❖ It was recognized by the United Nations in 2002.
- ❖ This makes it the youngest democracy in Asia.

### **17<sup>th</sup> G20 Summit**

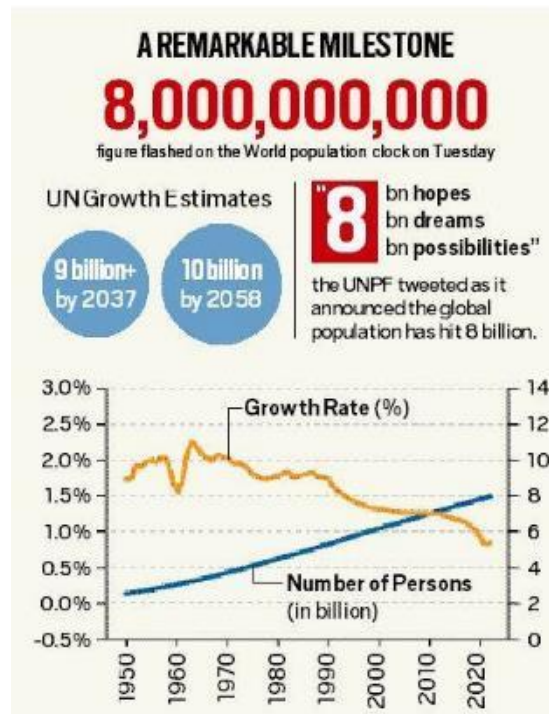
- ❖ It was held Bali, Indonesia.
- ❖ The two-day summit is themed “Recover Together, Recover Stronger”.
- ❖ Three working sessions was held as part of the G20 Summit Agenda.
- ❖ These are food and energy security, health, and digital transformation.
- ❖ Prime Minister Narendra Modi attended the G20 Summit 2022 hosted by Indonesia.
- ❖ While addressing the G20 working session on Food and Security, Prime Minister Modi reiterated India’s long-standing position in the favour of dialogue and diplomacy in Ukraine.
- ❖ Russian President Vladimir Putin, and leaders of Brazil and Mexico were not taking part in this event.
- ❖ Ukrainian President Volodymyr Zelensky was invited to address the summit virtually.
- ❖ G20 Troika refers to the top grouping within the G20 that consists of the current, previous and the incoming presidencies — Indonesia, Italy and India.
- ❖ India will assume the G20 presidency on 1st December 2022 from Indonesia, and will convene the G20 Leaders’ Summit for the first time in India in 2023.
- ❖ The 18th G20 Summit will be held in New Delhi in 2023.

- ❖ Indonesian President Joko Widodo handed over the G20 presidency to Prime Minister Narendra Modi.

### **Pandemic fund**

- ❖ G20 Health and Finance Ministers launched a \$1.4 billion Pandemic fund, to tackle the next global pandemic.
- ❖ Donors from G20 and non-G20 members, as well as philanthropic organizations, have contributed to the funds.
- ❖ It was developed with Indonesia's and Italy's leadership during their respective G20 presidencies.
- ❖ The United States has contributed \$450 million to the fund which is nearly a third of the total.
- ❖ This is the first time the international community has come together around a funding mechanism dedicated to investing in pandemic prevention, preparedness, and response in developing countries.

### **World Population - 8 billion**



- ❖ The world's population has reached 8 billion (800 crores) on November 15, 2022.
- ❖ The global population could grow to around 8.5 billion in 2030, 9.7 billion in 2050, and 10.4 billion in 2100.



- ❖ While it took the global population 12 years to grow from 7 to 8 billion, it will take approximately 15 years until 2037 to reach 9 billion.
- ❖ The annual World Population Prospect Report also notes that the global population is growing at its slowest rate since 1950.
- ❖ It has fallen to less than one percent in 2020.
- ❖ In the year 2022, the two most populous regions were both in Asia: Eastern and South Eastern Asia with 2.3 billion people and Central and Southern Asia with 2.1 billion.
- ❖ As per the UN estimates, India is projected to surpass China as the world's most populous country during 2023.
- ❖ China and India accounts for more than a third of the total.
- ❖ India estimates its population at 1.38 billion, slightly lower than the 1.4 billion that the World Bank estimates for China.
- ❖ More than half of the projected increase in the world population up to 2050 will be concentrated in just 8 countries: Egypt, Congo, Ethiopia, Nigeria, India, Pakistan, Tanzania, and the Philippines.

## Interest-free banking system

### Islamic Banking in Pakistan

#### ❖ Islamic Banking

Means such a bank where all the financial, trade, business matters are done according to the Islamic Rules & Regulations and it is free from Interest.

- ❖ At the time of independence Muslims had thought to root out Riba (Interest) in financial matters in this Islamic State.

#### ❖ 1947 to 1960:

No possible decision could be taken in this era to eliminate interest from the Banking World.

#### ❖ 1960 to 1977:

In this era, the Council of Islamic Ideology (CII) put a lot of reports in front of Government to guide the Govt. that Interest is prohibited in Islam.

#### ❖ 1977 to 1980:

the Council of Islamic Ideology (CII) and State Bank of Pakistan took some steps to remove interest from the economy. The steps are:

- ✓ In Feb, 1979 financial institutions which are (ICP, NIT, HBFC) were targeted for elimination of interest

- ❖ The Pakistan Government is planning to implement an interest-free banking system in the country from 2027 under the Islamic law.
- ❖ The concept of interest free banking system is derived from the Islamic form of banking.



- ❖ It operates based on ethical standards and prevents Muslims from paying or receiving any kind of interest.
- ❖ It is considered to be an effective tool to achieve the economic objectives of Islam.
- ❖ The first petition to abolish the existing interest-based banking system in Pakistan was filed in 1990.
- ❖ The Federal Shariat Court directed the government authorities to implement the system by June 30, 2000.
- ❖ After many appeals, It called on the government to eliminate Riba - the Islamic term for interest – from the country’s banking system by December 31, 2027.
- ❖ Meezah Baank, Pakistan’s first completely Islamic bank was established in the early 2000s.

### **African Carbon Markets Initiative**

- ❖ The African Development Bank (AfDB) has launched a two-year technical assistance program - the African Carbon Support Program.
- ❖ It is being implemented by its Energy, Environment and Climate Change Department.
- ❖ This program involves a screening process whereby the carbon finance potential of investment proposals received by the Bank is identified and assessed.

### **Interest-free Banking System**

#### **Islamic Banking in Pakistan**

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- ❖ The Pakistan Government is planning to implement an interest-free banking system in the country from 2027 under the Islamic law.
- ❖ It will operate based on ethical standards and prevents Muslims from paying or receiving any kind of interest.

- ❖ It is considered to be an effective tool to achieve the economic objectives of Islam.
- ❖ However, Pakistan is bound to honour the existing international financial commitments, though they do not comply with the sharia laws.

## Sea Vigil 22

| <b>'SEA VIGIL' FOR COASTAL SECURITY</b>  |   |
|--|---|
| <ul style="list-style-type: none"><li>▶ Exercise being undertaken along the entire <b>7516.6km coastline</b> and Exclusive Economic Zone of India</li></ul>            |   |
| <ul style="list-style-type: none"><li>▶ Aims to comprehensively and holistically validate the efficacy of the measures taken for coastal defence since 26/11</li></ul> |   |
| <ul style="list-style-type: none"><li>▶ It will provide a realistic assessment of our strengths and weaknesses</li></ul>   |   |
|  | <ul style="list-style-type: none"><li>▶ Mock drills and simulation of terror attacks will be conducted on Wednesday</li></ul> |

- ❖ The third edition of the 'pan-India' coastal defence Exercise 'Sea Vigil-22' is conducted by the Indian Navy.
- ❖ Sea Vigil is a national-level coastal defence exercise which was conceptualised in 2018.
- ❖ The exercise is being conducted by the Indian Navy in coordination with the Coast Guard and other ministries involved in maritime activities.
- ❖ The exercise validates various measures that have been instituted towards enhancing maritime security since '26/11'.
- ❖ Sea Vigil and TROPEX together will cover the entire spectrum Maritime Security challenges.
- ❖ Theatre Level Readiness Operational Exercise (TROPEX) is an inter-service military exercise conducted every two years.

## Operation Barkhane

- ❖ France announced the end of the decade-long military Operation Barkhane in Africa.
- ❖ France began its military operations in Sahel region in January 2013 with the title Operation Serval.

- ❖ It aimed to target Islamic extremists linked to al-Qaeda who took control of northern Mali.

### The Sahel region of Africa



### 5th Edition of Paris Peace Forum

- ❖ The Paris Peace Forum is a French non-profit organization established in 2018.
- ❖ It was organized based on the theme “Riding out the multi crisis”.
- ❖ It hosts annual gathering of world leaders and heads of international organizations as well as leaders from civil society and private sector from across the world.
- ❖ The goal of the annual event is not to directly address international conflicts but to offer an international arena for initiating dialogue between a multitude of both private and civil society actors.
- ❖ Economic and financial issues are dealt at the World Economic Forum in Davos (Switzerland) and security issues at the Munich Security Conference.

### Largest Data Centre Markets in Asia-Pacific

- ❖ Hyderabad, Chennai and New Delhi, have emerged as three of the top data centre markets in the Asia-Pacific (APAC) region.
- ❖ It was according to a report by Knight Frank.
- ❖ A data centre is a facility composed of networked computers, storage systems and computing infrastructure that organizations use to assemble, process, store and disseminate large amounts of data.

## **Moscow Format Consultations on Afghanistan**



- ❖ India participated in the fourth Meeting of the Moscow Format Consultations on Afghanistan
- ❖ It was introduced in 2017 on the basis of the six-party mechanism for consultations among special representatives from Russia, Afghanistan, China, Pakistan, Iran and India.
- ❖ Indian delegation and Taliban officials had come face-to-face for the first time at the Moscow Format meeting in Russia in 2021.

## **Sea Sword 2**

- ❖ INS Trikand has participated in the Combined Maritime Forces led Operation “Sea Sword 2”.
- ❖ The operation was held to prevent narcotics trade & stop smuggling entities from using the seas for their nefarious activities.
- ❖ This edition also marked the 30th anniversary of the exercise and was hosted by the Japan Maritime Self-Defense Force.
- ❖ Exercise Keen Sword is a joint and bilateral field training exercise between the US military and the Japan Self-Defence Force.

## **Ivory Trade - India's vote**

- ❖ India for the first time abstained from a vote seeking the commercial sale of African elephant tusks.
- ❖ It strengthens suspicions of a quid pro quo deal with Namibia for facilitating the transfer of eight cheetahs.
- ❖ Zimbabwe introduced a proposal to allow the commercial sale of elephant tusks that were stockpiled by the governments of Botswana, Namibia, South Africa and Zimbabwe.

- ❖ CITES is a multilateral treaty to protect endangered plants and animals from the threats of international trade.
- ❖ CITES protects more than 38,000 species against over-exploitation by either banning trade completely or placing strict restrictions.



### **Indo-Pacific Regional Dialogue (IPRD) 2022**

- ❖ The three-day apex-level regional strategic dialogue of the Indian Navy, the "Indo-Pacific Regional Dialogue 2022" (IPRD-2022) held in New Delhi.
- ❖ It is an annual international conference that seeks to foster exchange of ideas and promote deliberations on maritime issues relevant to the Indo-Pacific.
- ❖ The theme of IPRD-2022 is "Operationalising the Indo-Pacific Oceans Initiative."

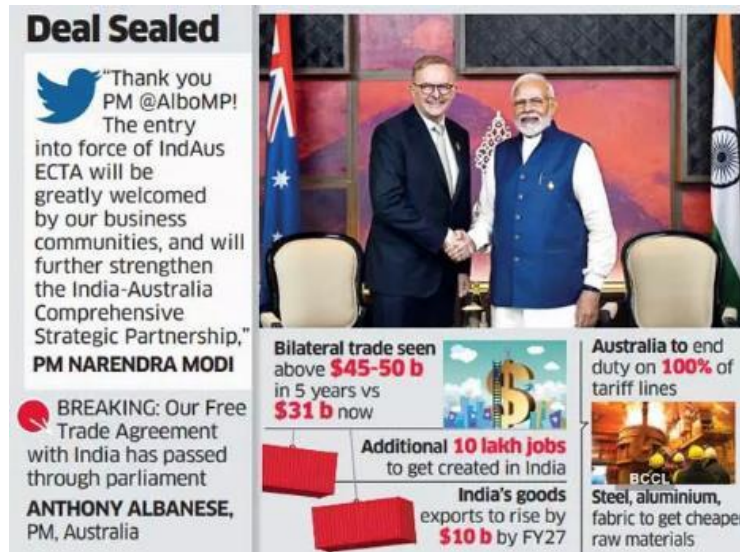


### **India - Australia FTA**

- ❖ The free trade agreement between India and Australia has been okayed by the Australian parliament.
- ❖ Following the approval, the India-Australia Economic Cooperation and Trade Agreement (AI-ECTA) would now become operational on a mutually agreed date.
- ❖ The FTA will provide duty-free access to the Australian market for over 6,000 broad sectors of India.
- ❖ These include textiles, leather, furniture, jewellery and machinery.



- ❖ India exported goods worth \$8.3 billion to Australia in 2021-22.
- ❖ India's imports from Australia, stood at \$16.75 billion during the period.



**Deal Sealed**

“Thank you PM @AlboMP! The entry into force of IndAus ECTA will be greatly welcomed by our business communities, and will further strengthen the India-Australia Comprehensive Strategic Partnership.”  
**PM NARENDRA MODI**

**BREAKING:** Our Free Trade Agreement with India has passed through parliament  
**ANTHONY ALBANESE, PM, Australia**

Bilateral trade seen above **\$45-50 b** in 5 years vs **\$31 b** now

Additional **10 lakh jobs** to get created in India

India's goods exports to rise by **\$10 b** by FY27

Australia to end duty on **100%** of tariff lines

Steel, aluminium, fabric to get cheaper raw materials

## Garuda Shakti



- ❖ The Indian and Indonesian Forces are participating in the eighth edition of the bilateral military exercise ‘Garuda Shakti’ at Karawang, Indonesia.
- ❖ It aims at enhancing understanding, cooperation and interoperability between the Special Forces of both armies.

## UNESCO-India-Africa Hackathon 2022

- ❖ UNESCO India Africa Hackathon was inaugurated at Gautam Buddha University, Uttar Pradesh.
- ❖ It is an annual 36 hours event that aims to tackle the common challenges faced by their countries and serves as a facilitator for cultural amalgamation.

- ❖ It brings together students, educators, teachers, and the research community of India and its African partners.



### **World's 'longest' gas supply deal**

- ❖ Qatar Energy announced a 27-year natural gas supply deal with China.
- ❖ It is the "longest" ever seen as it strengthened ties with Asia and history of the LNG industry.
- ❖ The state energy company will send four million tonnes of liquefied natural gas annually.
- ❖ Asian countries led by China, Japan and South Korea are the main market for Qatar's gas



### **Global Media Congress**

- ❖ The launch edition of the Global Media Congress (GMC) held in Abu Dhabi.
- ❖ This three-day event took place under the theme "Shaping the Future of the Media Industry".
- ❖ The conference-cum-exhibition Congress is organised by ADNEC Group in partnership with Emirates News Agency

## ECONOMY

### Steel production capacity

- ❖ According to the Department for Promotion of Industry and Internal Trade (DPIIT) The total steel production capacity of the country at present is 154 million tons (MT).
- ❖ India produced 10.14 MT of crude steel in April 2022, making it the second-largest producer in the world.
- ❖ India has set a target to double the crude steel production capacity from 154 MT per annum now to 300 MT per annum in the next 9-10 years in an order to boost indigenous capabilities.

### Russia - India's trade

- ❖ Russia is now India's seventh-largest trading partner-up from its 25th position last year.
- ❖ India's bilateral trade with Russia between April and August 2022 skyrocketed to a record high \$18.2 billion.
- ❖ India's imports from Russia have typically included petroleum oil and other fuel items, and fertilizers, mixed in with consumables such as coffee and tea, spices, and animal and vegetable fats.
- ❖ But in 2022 so far, fertilizers and fuel alone accounted for over 91% of bilateral trade.
- ❖ In September, Russia became India's second-largest crude oil supplier.
- ❖ India depends on imports to meet 85% of its petroleum needs.
- ❖ India is also the world's third biggest oil importer and consumer.
- ❖ Imports from Russia have surged over 500% year-on-year during the months of June, July, and August.



## **RBI Digital Rupee**



- ❖ RBI commenced a pilot launch of the digital rupee, Central Bank Digital Currency (CBDC) from November 1.
- ❖ It has identified nine banks for participation in the pilot launch.
- ❖ CBDC as legal tender issued by a central bank in a digital form.
- ❖ It is the same as a fiat currency and is exchangeable one-to-one with the fiat currency.
- ❖ In simple terms, the CBDC is basically the digital version (in an electronic form) of fiat currencies.

## **ONDC Network**

- ❖ Shiprocket is the first inter-city logistics provider to plug into the ONDC network.
- ❖ Shiprocket, a shipping and logistics solutions provider, has gone live on the government's Open Network for Digital Commerce (ONDC).
- ❖ It is enabling sellers from all segments to ship products to cities and towns across India.

## **Gold import under CEPA**

- ❖ Malabar Gold & Diamonds, is the first jeweller to import 25 kg of gold as part of the Comprehensive Economic Partnership Agreement (CEPA) between India and the UAE.
- ❖ According to the arrangement, the gold was imported through ICICI Bank with a 1% duty rebate.
- ❖ For the first time in India, the firm has successfully utilised the duty benefits of the agreement for both import and export.
- ❖ The 5% import charge into the UAE has been waived as per the agreement.
- ❖ The CEPA between India and the UAE came into force on May 1, 2022.

## Best Countries Ranking Report

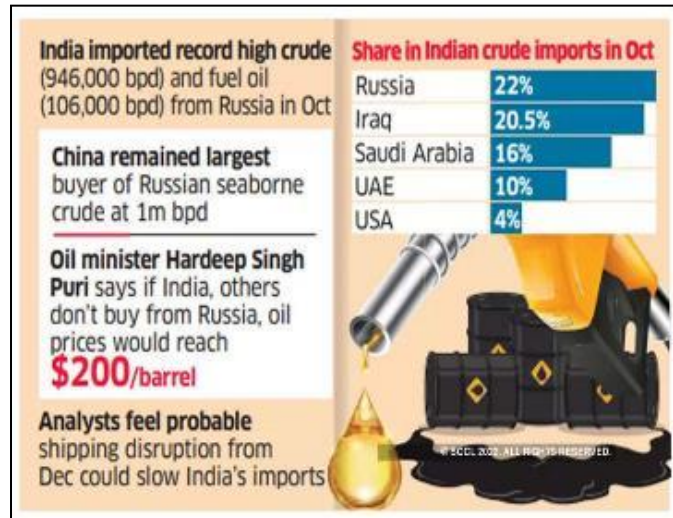
- ❖ The US News and World Report states that India has been ranked as the nation with the cheapest manufacturing cost ahead of China and Vietnam.
- ❖ According to the report, out of 85 nations, India has secured the 31st position in the overall best countries ranking.
- ❖ As per the report, under the open for business sub-category, India has scored 100 per cent when it comes to cheap manufacturing costs.
- ❖ But in 'favourable tax environment', it has scored 16.2 out of 100; 18.1 in the 'not corrupt' category and 3.5 in 'transparent government policies'.
- ❖ Also, the nation scored 9.9 in 'economically stable' sub-category.
- ❖ In the overall Best Countries ranking, Switzerland has topped the chart, followed by Germany, Canada, US and Sweden.

## Third-largest export market

- ❖ The Netherlands has emerged as India's third-largest export destination, ahead of China and Bangladesh.
- ❖ It has moved up two spots in the list of India's top ten export destinations since FY22.
- ❖ Brazil, which occupied the 21st spot in FY22, is now India's 8th biggest export market.
- ❖ Indonesia has moved up seven notches to grab the 7th position.
- ❖ Only two European nations—the Netherlands and the UK—are among India's top ten markets.
- ❖ The US and the UAE continue to be the largest and second-largest export destinations, respectively.



## India's Top Oil Supplier



- ❖ Russia became India's largest oil supplier in October 2022.
- ❖ It is surpassing traditional top sellers Saudi Arabia and Iraq by supplying an average of 9.35 lakh barrels per day.
- ❖ India did not import a single barrel from Russia in January and February.

## Highest-Ever Quarterly Profit

- ❖ State Bank of India reported 74 per cent year-on-year increase in net profit in last quarter.
- ❖ This marks the highest ever quarterly net profit posted by the bank.
- ❖ The bank's gross non-performing assets (NPA) at 4 per cent and net NPA at 0.8 per cent was at decadal best levels.

| <b>SBI Q2 EARNINGS</b>  |                 |                 |                |
|-------------------------|-----------------|-----------------|----------------|
| <b>SBI</b>              | Q2FY23          | Q2FY22          | % Change (YoY) |
| <b>PROFIT</b><br>(₹ Cr) | <b>13,264.5</b> | <b>7,626</b>    | <b>▲73.9%</b>  |
| <b>NII</b><br>(₹ Cr)    | <b>35,183.4</b> | <b>31,183.9</b> | <b>▲12.8%</b>  |

## Self-Reliant India Fund

- ❖ Self-Reliant India Fund is Rs.10,000 crore fund launched by the Indian Government.

- ❖ It is a SEBI-registered category-II Alternative Investment Fund.
- ❖ It was launched by the Government to provide growth capital to MSME Sector.
- ❖ It operates via the mother-fund and daughter-fund (Fund of Funds) structure.
- ❖ The mother fund is the SEBI fund that invests up to 20 per cent of the overall corpus.
- ❖ The daughter fund raises the rest 80 per cent of the capital from the outside sources.



**SELF RELIANT INDIA (SRI) FUND**

The Fund structure leverages the strength of the private sector in providing growth capital to viable MSMEs having a definite growth plan.

**FEATURES**

- Ensures availability of growth capital to the MSMEs, through equity/ equity like structured instruments
- Supports faster growth of MSME businesses, thereby igniting the economy & creating several employment opportunities.
- Encourages MSMEs in moving towards listing on the Stock Exchanges, and growing beyond the bracket of MSME.
- Supports enterprises which have the potential to graduate beyond the MSME bracket and become National/International champions.

SRI Fund contributes towards achieving India's \$5 trillion GDP target by creating a vibrant MSME ecosystem, and making Aatmanirbhar Bharat

### **Currency Monitoring List – India**

- ❖ The US Department of Treasury removed India along with Italy, Mexico, Thailand and Vietnam from its Currency Monitoring List.
- ❖ China, Japan, Korea, Germany, Malaysia, Singapore, and Taiwan are the seven economies that are a part of the current monitoring list.
- ❖ Currency Manipulators is a label given by the US government to countries which are engaging in “unfair currency practices” by deliberately devaluing their currency against the dollar.

## India's Agri Exports 2021/22

- ❖ India's agricultural exports this year are on track to surpass the \$50 billion mark achieved in 2021-22.
- ❖ After petroleum, electronics, gold and coal, vegetable oils are now the country's fifth largest import item.
- ❖ India has turned into a net cotton importer primarily due to lower domestic production.
- ❖ In pepper, Vietnam, Sri Lanka, Indonesia and Brazil have outcompeted India, while Guatemala has gained market share in cardamom.



## Arvind Virmani

- ❖ The Government of India has appointed the senior economist Dr. Arvind Virmani as a full-time member in the NITI Aayog.
- ❖ It has been approved by Prime Minister Modi.

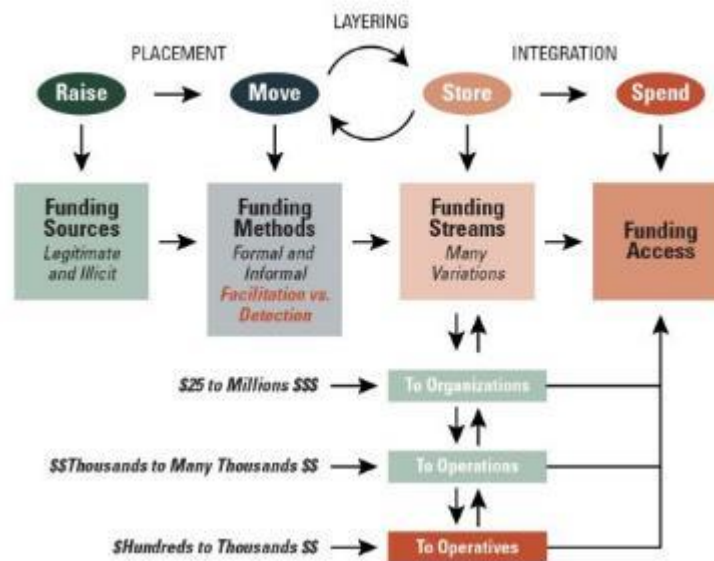




- ❖ NITI Aayog presently has three members- Dr. V K Saraswat, Professor Ramesh Chand, and Dr. VK Paul.
- ❖ Virmani served as the Chief Economic Advisor in the Ministry of Finance during the Manmohan Singh-led UPA government from 2007-09.

## No Money for Terror Conference (NMFT)

Figure 1: Funding: Sources / Methods / Access



- ❖ India hosted the 3rd edition of the NMFT conference.
- ❖ The conference was first held in Paris in 2018, followed by Melbourne in 2019
- ❖ It was hosted by the Ministry of Home Affairs with over 75 countries participating.
- ❖ It aims to regulate the use of crowdfunding platforms to finance terrorist activities.

## ABMS Certification

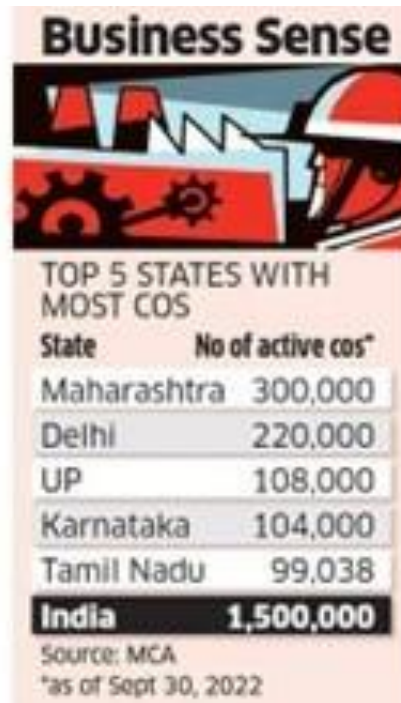
- ❖ Steel Authority of India Limited (SAIL) has achieved the distinction of becoming the first Maharatna Public Sector Unit to have implemented the Anti-Bribery Management System (ABMS).
- ❖ ABMS is a Management System that is designed in line with ISO 37001:2016 to help an organization prevent, detect and respond to bribery.
- ❖ BMS Certificate has been awarded to the Corporate Office of SAIL in Delhi and SAIL's Bokaro Steel Plant in Jharkhand.



SAIL has become the first Maharatna PSU to implement Anti-Bribery Management System (ABMS)

ABMS certificate was awarded in concluding ceremony of Vigilance Awareness week today in presence of Shri PK Srivastava, Vigilance Commissioner.

### Active companies Rank

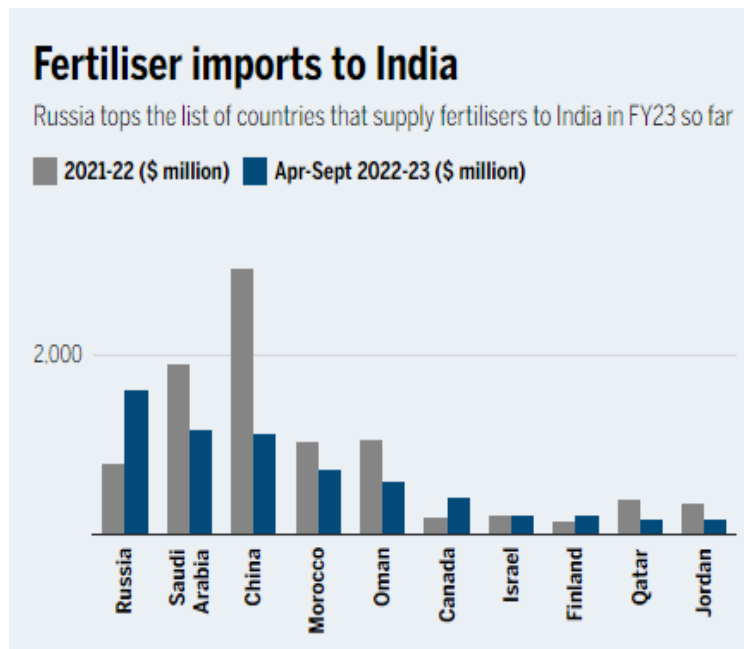


- ❖ Uttar Pradesh has added the greatest number of new companies after Maharashtra and Delhi since the outbreak of Covid-19.

- ❖ In the post-pandemic phase, UP has overtaken Karnataka, Tamil Nadu and Telangana.
- ❖ This data was combined by the corporate affairs ministry (MCA).
- ❖ Uttar Pradesh is the third ranked state in terms of number of active companies behind Maharashtra and Delhi.
- ❖ Karnataka and Tamil Nadu are at fourth and fifth in this category.
- ❖ While Uttar Pradesh has added 30,000 companies, Maharashtra on the other hand added 60,000 new companies in the past three years.

### Top fertilizer supplier to India

- ❖ Russia for the first time became the biggest fertilizer supplier to India in the first half of the 2022-23.
- ❖ India's fertilizer imports from Russia surged 371% to a record 2.15 million tonnes in the first six months of the fiscal year.
- ❖ India's imports during the period spiked 765% to \$1.6 billion.

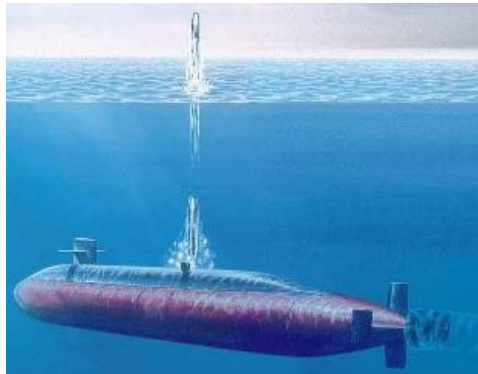


## SCIENCE AND TECHNOLOGY

### Sampurnanand telescope

- ❖ Sampurnanand telescope marks its golden jubilee year in 2022.
- ❖ It was installed and commissioned in 1972.
- ❖ 104-cm or one-metre-class optical telescope in Uttarakhand was built which is the oldest to be operational in independent India.
- ❖ It had contributed to the discovery of two rings around Saturn, one of which was newly identified then.
- ❖ It had also helped in the detection of rings around Uranus and the ring of Neptune was discovered independently using this facility.
- ❖ It is located on the Manora peak (1,951 metres above mean sea level) to the southwest of Nainital.
- ❖ Three identical telescopes were installed each at Kavalur in Karnataka, at the Osmania University in Hyderabad, and in Nainital around the same time.
- ❖ But it is only the Sampurnanand telescope that continues to operate and produce science even today.

### Submarine Launched Ballistic Missile



- ❖ INS Arihant has successfully launched a nuclear-capable Submarine Launched Ballistic Missile (SLBM) in Bay of Bengal.
- ❖ The ability to launch nuclear weapons from submarines is critical for achieving nuclear triad.
- ❖ A Nuclear triad refers the three-pronged military force structure having the capability to launch nuclear missiles from land, aircraft and submarines.
- ❖ The SLBMs are sometimes known as K family of missiles – codenamed after APJ Abdul Kalam.

- ❖ They were developed by the DRDO.
- ❖ INS Arihant is a nuclear-powered ballistic missile-capable submarine indigenously developed by India.

### **Param Kamrupa**

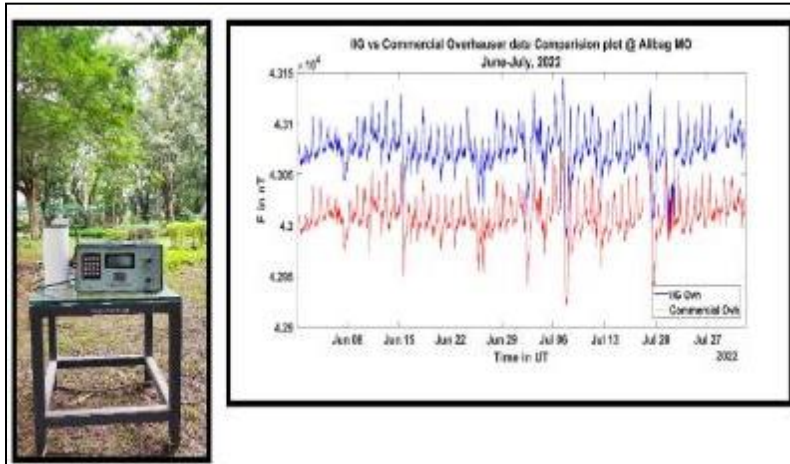
- ❖ President Draupadi Murmu launched India's latest super computer Param-Kamrupa.
- ❖ It is a high-performance computing cluster named after Assam's historic kingdom of Kamrupa.
- ❖ This supercomputer facility has replaced Param-Ishan as the northeast region's fastest and most powerful supercomputer.
- ❖ Param-Ishan was inaugurated in IIT Guwahati in 2016.
- ❖ Param-Kamrupa was set up at IIT Guwahati under the National Supercomputing Mission (NSM).
- ❖ NSM is a joint initiative of the ministry of electronics and information technology (MeitY) and the department of Science and Technology (DST).
- ❖ There were 15 such super computers that were deployed across the country.



### **Inhalable COVID-19 vaccine**

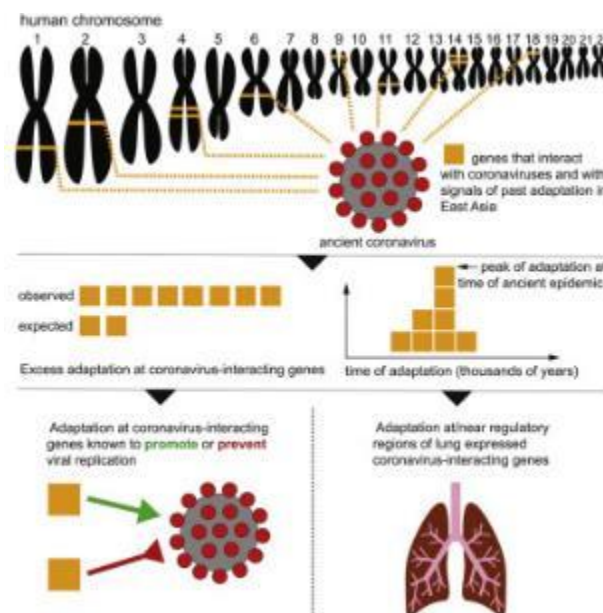
- ❖ Authorities in Shanghai have started administering an inhalable vaccine against Covid-19, apparently a world first.
- ❖ The vaccine is being offered for free as a booster dose for previously vaccinated people.
- ❖ The inhalable vaccine has been developed by the Chinese biopharmaceutical company CanSino Biologics Inc.
- ❖ It is an aerosol version of its one-shot adenovirus vaccine.

## Indigenous Overhauser Magnetometer



- ❖ The Indian Institute of Geomagnetism, Mumbai has developed the magnetometer as part of its technology development program.
- ❖ It will pave way for reducing the cost of sampling and sensing experiments essential for geomagnetic sampling.
- ❖ Overhauser Magnetometer is one of the most accurate magnetometers extensively used by all magnetic observatories around the world.
- ❖ They are known for their higher accuracy, higher sensitivity, and efficient power consumption and hence find applications in all magnetic observatories worldwide as well as in international space programs.

## Virus in DNA



- ❖ Ancient viral pandemics in the form of viral DNA sequences embedded in our genomes are still active in healthy people.
- ❖ HERVs, or human endogenous retroviruses, make up around 8% of the human genome.
- ❖ They left behind as a result of infections that humanity's primate ancestors suffered millions of years ago.
- ❖ Viruses insert their genomes into their hosts in the form of a provirus.
- ❖ There are around 30 different kinds of human endogenous retroviruses in people today, amounting to over 60,000 proviruses in the human genome.

### **Falcon Heavy rocket**

- ❖ SpaceX launched the Falcon Heavy rocket from Kennedy Space Center in Florida.
- ❖ Falcon Heavy is a partially reusable heavy-lift launch vehicle developed by SpaceX.
- ❖ This is the 50th launch conducted by SpaceX in 2022.
- ❖ It is a powerful rocket comprising of 2 strap-on boosters.
- ❖ The return of the two side boosters marks the 150<sup>th</sup> and 151<sup>st</sup> recovery of orbital class rockets.
- ❖ It has the highest payload capacity among the currently operational launch vehicles.
- ❖ It can generate more than 5 million pounds of thrust at lift-off.
- ❖ This is equivalent to around eighteen 747 aircraft.

#### **Falcon Heavy rocket**



### **Gold-mushroom combo**

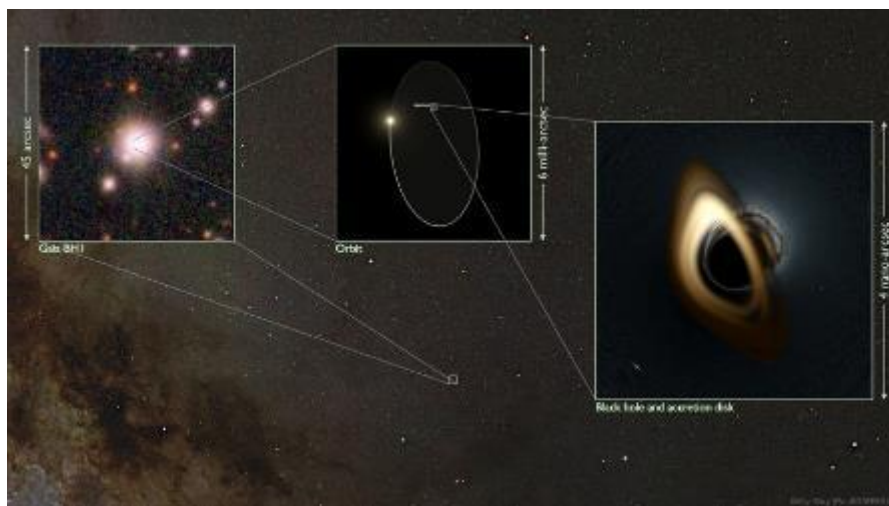
- ❖ Cordy gold nanoparticles (Cor-AuNPs) is the outcome of a collaborative experiment by scientists from four Indian institutions.

- ❖ It has earned an international patent from Germany.
- ❖ These nanoparticles, derived from the synthesis of the extracts of *Cordyceps militaris* and gold salts.
- ❖ It will make drug delivery in the human body faster and surer.
- ❖ *Cordyceps militaris* is a lab-grown high value parasitic fungus.
- ❖ It is called super mushroom because of its tremendous medicinal properties.



### **Black Hole 'Gaia BH1'**

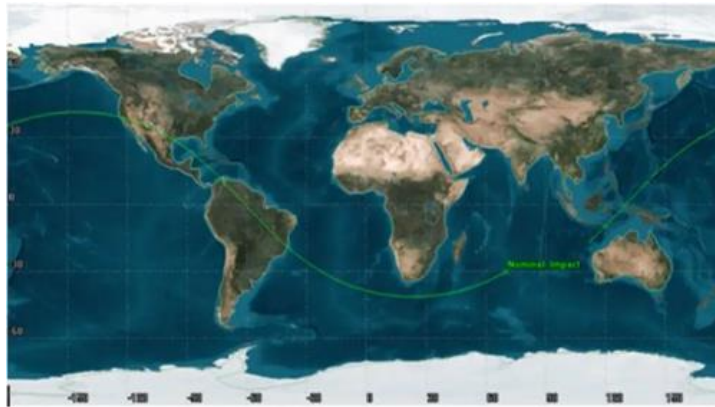
- ❖ Astronomers has discovered the closest-known Black Hole to Earth using the International Gemini Observatory.
- ❖ The dormant black hole, dubbed Gaia BH1, sits 1,600 light-years away in the constellation Ophiuchus.
- ❖ The black hole weighs 10 times the mass of our sun.
- ❖ It is three times closer to Earth than the previous record-holder, an X-ray pair in the constellation of the Monoceros.





### **RISAT-2 - Uncontrolled re-entry**

- ❖ RISAT-2, made an uncontrolled re-entry into the Earth's atmosphere at the predicted impact point.
- ❖ It was launched by the Indian Space Research Organisation (ISRO) in 2009.
- ❖ RISAT-2 Satellite carried 30 Kg of fuel for an initial designed life of four years.
- ❖ By economical usage of fuel RISAT-2 provided very useful payload data for 13 years.
- ❖ The pieces generated due to aero-thermal fragmentation would not have survived re-entry heating and hence no fragments would have impacted on Earth



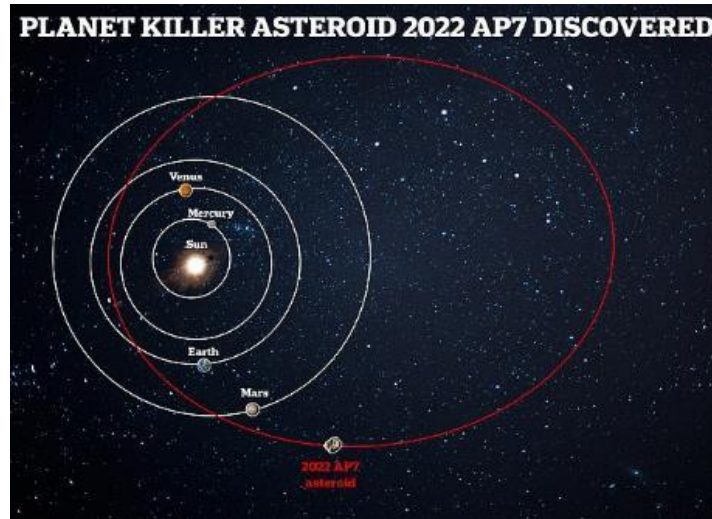
### **SPACE facility - NPOL**

- ❖ DRDO launched the Submersible Platform for Acoustic Characterization and Evaluation (SPACE) facility at Naval Physical and Oceanographic Laboratory (NPOL).
- ❖ It is a state-of-the-art testing and evaluation facility for sonar systems.
- ❖ It is developed for use by the Indian Navy onboard various platforms, including ships, submarines and helicopters.



- ❖ The uniqueness of this facility lies in the specially designed submersible platform.
- ❖ It can be lowered up to depths of 100 meters using a series of synchronously operated winches.

### **Asteroid 2022 AP7**

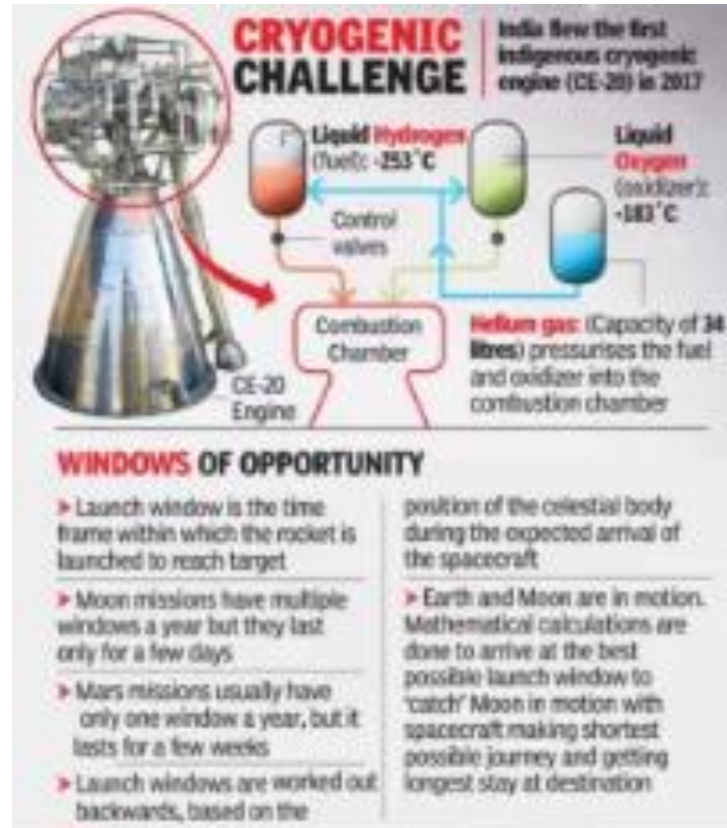


- ❖ A team of astronomers has discovered three massive near-Earth asteroids hiding in the glare of the Sun.
- ❖ Of these, one called 2022 AP7 is believed to be the largest planet killer-sized asteroid to be spotted in nearly a decade.
- ❖ It is “potentially hazardous” to Earth.
- ❖ It is 1.5-kilometre-wide and has an orbit that may someday put it on a collision course with our planet.
- ❖ The other two- 2021 LJ4 and 2021 PH27 have orbits that are safely constrained inside the limits of Earth’s orbit.
- ❖ At less than a kilometre in diameter, 2021 LJ4 is the smallest in size.
- ❖ The asteroid, 2021 PH27, is the closest known asteroid to the Sun.
- ❖ Due to this, its surface gets hot enough to melt lead.

### **CE20 Cryogenic Engine**

- ❖ The Indian Space Research Organisation (ISRO) has successfully conducted the hot test of CE20 cryogenic engine.
- ❖ It has been indigenously developed for LVM3, previously called the GSLV-Mk3.
- ❖ CE20 cryogenic engine is indigenously developed for LVM3.

- ❖ This will enhance the LVM3 payload capability up to 450 kg with additional propellant loading.
- ❖ The LVM3 is the heaviest launch vehicle of ISRO.



### **Indian Biological Data Center (IBDC)**

- ❖ The Union Minister of state for Science and Technology Jitendra Singh recently dedicated Indian Biological Data Center (IBDC) to the nation.
- ❖ It is India's first national repository for life science data.
- ❖ It will store all life science data generated from publicly funded research in the country.
- ❖ It operates with the assistance from the Department of Biotechnology (DBT).
- ❖ It was established at the Regional Centre of Biotechnology (RCB) in Faridabad, Haryana.
- ❖ It has a data "disaster recovery" site in National Informatics Centre (NIC) in Bhubaneswar.
- ❖ It has a data storage capacity of around 4 petabytes.
- ❖ It hosts the 'Brahm' High Performance Computing (HPC) facility.

## LOFTID mission



- ❖ NASA completed the technology demonstration of its Low-Earth Orbit Flight Test of an Inflatable Decelerator (LOFTID) mission.
- ❖ The cone-shaped structure will have an inflatable structure that is capable of holding its shape against drag forces.
- ❖ It will also have a protective flexible thermal protection system that will protect it from the heat generated during re-entry.

## ARTEMIS 1



- ❖ NASA launches the most powerful rocket ever built on a journey to the Moon.

- ❖ The step has marked the start of the US Space Agency's new flagship program, Artemis
- ❖ The 32-story tall Space Launch System (SLS) blasted off from the storied Kennedy Space Center in Florida of USA.
- ❖ Fixed at the top of Artemis 1 was the uncrewed Orion Spaceship.
- ❖ After the successful launch of Artemis 1, Artemis 2 will involve a flyby of the Moon with astronauts in 2024.
- ❖ While Artemis 3 will see the boots on lunar soil, no sooner than 2025.

### **Vikram-S**

- ❖ It is India's first privately developed rocket successfully lifted off from the Spaceport in Sriharikota.
- ❖ It has marked the entry of the private sector into India's space industry, dominated by the Indian Space Research Organisation (ISRO) for decades.
- ❖ The maiden mission of Skyroot Aerospace, named 'Prarambh' (the beginning) carried three customer payloads.
- ❖ With this new mission, Skyroot Aerospace became the first private sector company in the country to launch a rocket into space.
- ❖ These are named 'Vikram' as a tribute to the founder of the Indian Space programme and renowned scientist Vikram Sarabhai.



### **Lab Grown Meat – USA**

- ❖ The U.S. Food and Drug Administration (FDA) for the first time cleared a meat product grown from animal cells for human consumption.
- ❖ They are also called as clean meat or cultured meat.

- ❖ Animal cell culture technology is used to make cultured animal meat.
- ❖ Cultivated meat is often grown in a vat where stem cells are duplicated.
- ❖ The vat is filled with serum containing amino acids, sugars and other nutrients needed for cells to grow.
- ❖ Then the vat is put in a bio-reactor, a lab device for growing organisms.
- ❖ Singapore was the first country to allow the sale of cultured meat.
- ❖ Cultivated meat helps to save the animal slaughter.



## Hydrogen Valleys

- ❖ The DST under the Clean Hydrogen Mission of “Mission Innovation” has set in motion the process of identifying and setting up at least 3 Hydrogen Valleys by 2030.
- ❖ A “Hydrogen Valley” is a geographical area – a city, a region, an island or an industrial cluster – where several hydrogen applications are combined together into an integrated hydrogen ecosystem that consumes a significant amount of hydrogen, improving the economics behind the project.
- ❖ Mission Innovation (MI) is a global initiative of 23 countries and the European Commission (on behalf of the European Union) catalysing a decade of action and investment in research, development and demonstration to make clean energy affordable, attractive and accessible for all.
- ❖ This will accelerate progress towards the Paris Agreement goals and pathways to net zero.



### **Ronnagrams and Quettametres**

- ❖ The General Conference on Weights and Measures (CGPM) adopted a new prefix to express tiny or immense orders of magnitude,
- ❖ This is the first time in more than three decades that the International System (SI) established in 1960.
- ❖ The well-known prefixes like kilo and milli are joined by ronna and quetta for the largest numbers – and ronto and quecto for the smallest.
- ❖ Convention dictates that the larger prefixes end in an A, and the smaller ones in an O.
- ❖ The new prefixes can simplify the way we talk about some fairly large objects.
- ❖ The Earth weighs about six ronagrams, which is a six followed by 27 zeros.
- ❖ Jupiter, about two quettagrams, which is a two, followed by 30 zeros.
- ❖ The last time was in 1991 when chemists wanting to express massive molecular amounts spurred the addition of Zetta and Yotta.
- ❖ A yottameter is a one followed by 24 zeros.

### **200th Consecutive Successful Launch**

- ❖ RH200, the versatile sounding rocket of ISRO, has registered its 200th consecutive successful launch from the shores of Thumba.
- ❖ The successful flight of RH200 took off from the Thumba Equatorial Rocket Launching Station (TERLS).
- ❖ The Rohini Sounding Rocket (RSR) series have been the forerunners for ISRO's heavier and more complex launch vehicles.

## ENVIRONMENT

### NDC synthesis report 2022

- ❖ The 2022 NDC synthesis report was released by the United Nations Framework Convention on Climate Change (UNFCCC).
- ❖ It is an annual summary of countries' Nationally Determined Contributions (NDC) and their impact on greenhouse gas emissions.
- ❖ The current NDCs will increase GHG emissions by 10.6 per cent by the end of this decade compared to 2010 levels.
- ❖ This year's report revealed that the emissions will no longer spike after 2030.
- ❖ If the latest NDCs are implemented, 52.4 Gt CO<sub>2</sub>e of GHGs will be emitted by 2030.
- ❖ The global emissions must be only 31 Gt CO<sub>2</sub>e in 2030 to reach the goals set by the Paris Agreement.

### Allmania multiflora



- ❖ A new species of plant named *Allmania multiflora* was discovered on the hillocks of Palakkad.
- ❖ *Allmania multiflora* is a new species belonging to the genus *Allmania*.
- ❖ It is only the second species of the *Allmania* genus found in the world.
- ❖ The new species was discovered 188 years after the genus and the first species *Allmania nodiflora* were described.
- ❖ Before the new species was identified, *Allmania nodiflora* was believed to be the only lone species of the genus *Allmania*.
- ❖ *Allmania nodiflora* was published under the genus *Celosia* as *Celosia nodiflora* in 1753.



- ❖ It was later described as *Allmania nodiflora* in 1834.
- ❖ Its native range span from the Indian subcontinent to China and western and central Malesia.
- ❖ It was assessed to be a critically endangered species.

## 2 New Blue Flag Beaches

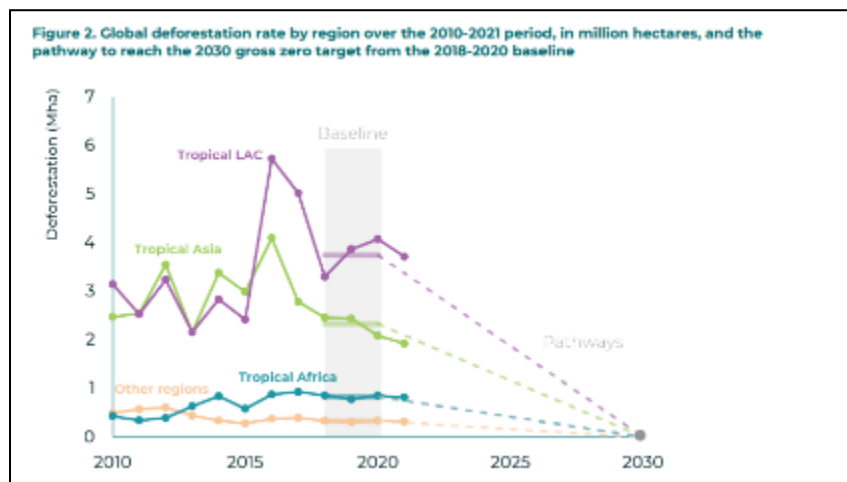
- ❖ Minicoy Thundi beach and Kadmat beach, from Lakshadweep have been accorded the coveted International eco-label 'Blue Flag'.
- ❖ Together the two beaches have taken India's tally of Blue Beaches to 12.
- ❖ Blue Beaches are the worlds cleanest and most eco-friendly "beaches, marinas, and sustainable boating tourism operators".



## 2022 Forest Declaration Assessment

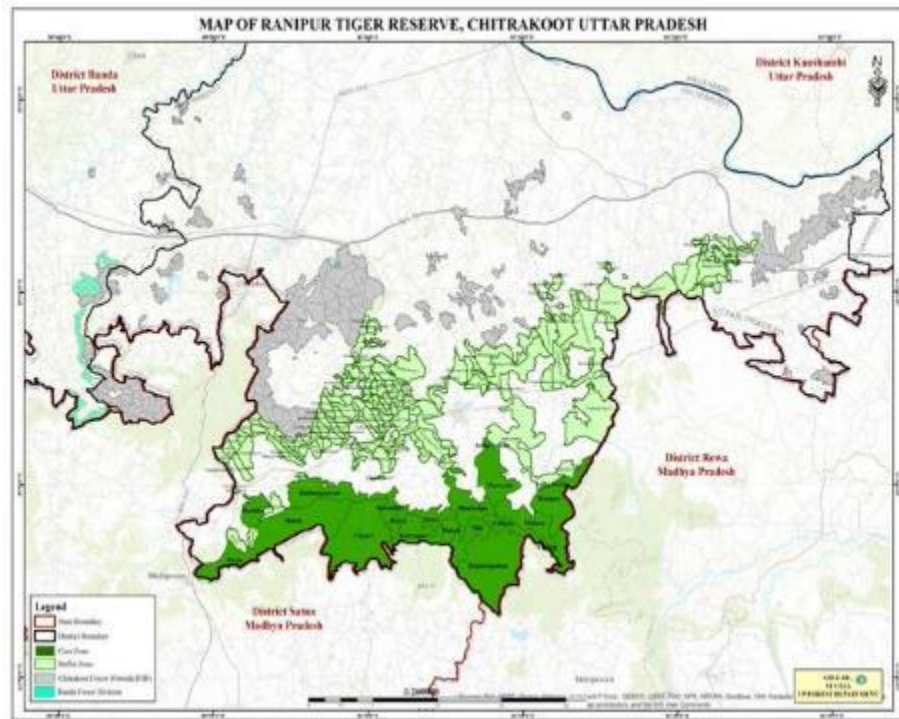
- ❖ Deforestation rates worldwide declined only modestly in 2021 by 6.3 % compared to the 2018-20 baseline.
- ❖ Some 145 countries affirmed their commitment to halt and reverse forest loss and land degradation by 2030 at COP 26.
- ❖ But not a Single Global Indicator is on Track' to Reverse Deforestation by 2030.
- ❖ To be on course to halt deforestation completely by 2030, a 10% annual reduction is needed.

- ❖ While afforestation and restoration efforts have been commendable, more forest area is being lost than gained.
- ❖ Global forest loss decreased in 2021, but the crucial climate goal of stopping deforestation by 2030 would still be missed.
- ❖ Brazil was the world's largest contributor to deforestation in 2021.
- ❖ Global tree cover increased by 130.9 million hectares over the past two decades.
- ❖ Three-quarters of the global gain was concentrated in 13 countries.
- ❖ The most significant improvements were observed in Russia (28.4 %), Canada, the United States, Brazil, and China.
- ❖ China showed the largest net gain in tree cover - 2.1 million hectares (Mha).
- ❖ India also marked a gain of 0.87 Mha in tree cover.
- ❖ Gabon reduced deforestation by 28% in 2021 compared to 2018-20.
- ❖ Forest funding must increase by up to 200 times to meet 2030 goals.



### 53rd Tiger Reserve of India

- ❖ Uttar Pradesh's Ranipur Tiger Reserve has become the 53rd tiger reserve of India.
- ❖ Besides this, it is also the fourth tiger reserve in Uttar Pradesh.
- ❖ Apart from Ranipur, the state has three tiger reserves– Dudhwa, Pilibhit and Amangarh.
- ❖ Amangarh is a buffer zone of the Jim Corbett National Park and is located in Uttar Pradesh's Bijnor.
- ❖ While Dudhwa Tiger Reserve is located in Lakhimpur, Pilibhit Tiger Reserve is in Pilibhit.



## Dolphins in Ganga



- ❖ The dolphins which had started disappearing due to pollution in the Ganga River have started coming back due to the improvement in the water quality of the river.

- ❖ Dolphins have also been seen breeding in Brijghat, Narora, Kanpur, Mirzapur, Varanasi.
- ❖ At present, the population of dolphins in the Ganga in Uttar Pradesh is estimated to be around 600.

### **Pseudohelice Annamalai**

- ❖ New species of estuarine crab named *Pseudohelice annamalai* was discovered in Cuddalore District in Tamil Nadu.
- ❖ The species' name recognizes 100 years of service by Annamalai University in the areas of research and education.
- ❖ The new species is found across the Indian Subcontinent and the eastern Indian Ocean.
- ❖ Before this, only two species have been identified from the genus *Pseudohelice*.
- ❖ They are *Pseudohelice subquadrata* and *Pseudohelice latreilli*.



### **Snow leopard at Baltal-Zojila region**

- ❖ The snow leopard presence was recorded from the Baltal-Zojila region, Kashmir.
- ❖ It is the first record of snow leopard from the Baltal-Zojila area.
- ❖ Snow Leopard population estimation is part of the Snow Leopard Population Assessment of India.
- ❖ Camera trapping exercises also raised hopes for other important and rare species such as the Asiatic ibex, brown bear and Kashmir musk deer in the upper reaches of the northernmost part of India.
- ❖ The Snow Leopard Population Assessment of India has been concluded so far in Himachal Pradesh and Uttarakhand.
- ❖ The estimated population of the great cat is 50 and 100 in these two States respectively.



### Carbon neutral tourist destination by 2041

- ❖ Mathura-Vrindavan aims to become a “net zero carbon emission” tourist destination by 2041.
- ❖ This means that tourist vehicles will be banned from the entire Braj region.
- ❖ It includes famous pilgrim centres such as Vrindavan and Krishna Janmabhoomi.
- ❖ Instead, only electric vehicles used as public transport will be allowed into the area.
- ❖ All 252 water bodies and 24 forests in the area will also be revived.
- ❖ The eight key cities of this region would also be connected through an inland waterways system and a narrow-gauge railway line.
- ❖ The existing 12.9 km narrow gauge railway line connecting the twin cities of Mathura and Vrindavan would be redeveloped.
- ❖ Net Zero Carbon Emission is referred to as carbon neutrality.
- ❖ It does not mean that a country/state would bring down its emissions to zero.
- ❖ But it is a state in which a country’s/state’s emissions are compensated by the absorption and removal of greenhouse gases from the atmosphere.

|   |   |
|---|---|
| <p><b>PM MAKES FIVE PLEDGES</b></p> <ol style="list-style-type: none"> <li>1 India will increase its non-fossil energy capacity to 500GW by 2030</li> <li>2 India will meet 50% of its energy requirements from renewable energy by 2030</li> <li>3 India will reduce the total projected carbon emissions by one billion tonnes from now to 2030</li> <li>4 By 2030, India will reduce the carbon intensity of its economy by 45% (from a previous target of 35%)</li> <li>5 By 2070, India will achieve the target of net zero</li> </ol> | <p><b>WHAT IS NET ZERO?</b></p> <p>Net zero refers to a balance where emissions of greenhouse gases are offset by the absorption of an equivalent amount from the atmosphere. Experts see net zero targets as a critical measure to successfully tackle climate change and its devastating consequences</p> |
| <p><b>PLEDGES BY TOP THREE EMITTERS</b></p> <p> <b>CHINA:</b> Beijing announced no new pledges on Monday. It previously pledged net zero by 2060.</p> <p> <b>UNITED STATES:</b> The US touted domestic legislation to spend \$555bn to boost renewable power and electric vehicles. It has pledged net zero by 2050.</p> <p> <b>INDIA:</b> The country's economy will become carbon neutral by the year 2070</p>  |   |

## **Inclusion of Loss and Damage Funding**

- ❖ Loss and damage funding became part of the official agenda for the COP27.
- ❖ COP27 is being held at Sharm-El-Sheikh in Egypt.
- ❖ Other key additions to the agenda include “matters related to the least developed countries” and “long-term finance”.
- ❖ Loss and damage finance is a proposed mechanism that provides financial aid to areas and communities that are already severely affected by the climate change.
- ❖ This mechanism has been demanded for a long time by developing and vulnerable communities, including India.
- ❖ However, developed countries have opposed it due to the fear of being pushed into providing majority of the funding.
- ❖ Recently, the developed countries agreed to include the mechanism in the agenda if it does not include ‘compensation and liability’ targeting so that they are not accountable for the historic emissions.
- ❖ If this mechanism becomes a reality, it will positively impact the low-lying vulnerable coastal areas including the Sundarbans.
- ❖ Lifestyle for Environment (LiFE), which was proposed by Indian Prime Minister, also a part of the agenda.

## **Mangrove Alliance for Climate**



- ❖ At the COP27, the Mangrove Alliance for Climate (MAC) was launched with India as a partner.
- ❖ It is an intergovernmental alliance that seeks to expand and hasten the progress towards conservation and restoration of mangrove ecosystems.
- ❖ The five countries which have joined MAC are India, Australia, Japan, Spain, and Sri Lanka.
- ❖ It will raise global awareness about the role of mangroves as a nature-based climate change solution and will ensure the rehabilitation of mangrove forests a global level.

- ❖ Mangroves are distributed in the tropical and sub-tropical region of the world and are found in 123 countries.

### **Executive Action Plan of Early Warnings**



- ❖ The Executive Action Plan of Early Warnings for All was released by during a roundtable meeting at the COP27 to UNFCCC.
- ❖ It aims to develop a global early warning system for extreme weather events that have been intensified because of climate change.
- ❖ The plan proposes the initial investment of around 3.1 billion USD for delivering early warning systems for all.
- ❖ Early warning systems are still not accessible to 33 per cent of the global population.
- ❖ Over 60 per cent of the population in Africa do not have access to these systems.
- ❖ Just 24 hours' notice of an impending disaster event can minimise damage by 30 per cent.

### **Indian Black Honeybee**

- ❖ A new species of endemic honeybee has been discovered in the Western Ghats.
- ❖ The new species has been named *Apis karinjodian* and given the common name Indian black honeybee.
- ❖ A new species of honeybee has been spotted from the Western Ghats after a gap of more than 200 years.
- ❖ The last honeybee described from India was *Apis indica* in 1798 by Fabricius.
- ❖ Although Fabricius named the Indian bee *Apis indica*, it was not considered a valid species till now.

- ❖ The research team restored the status of *Apis indica* based on a new measure for species discrimination in honeybees termed 'Radio-Medial Index (RMI)'.
- ❖ Till date, only a single species, *Apis cerana* was noted across the plains of central and southern India and Sri Lanka.
- ❖ The new find has increased the species of honeybees in the world to 11.

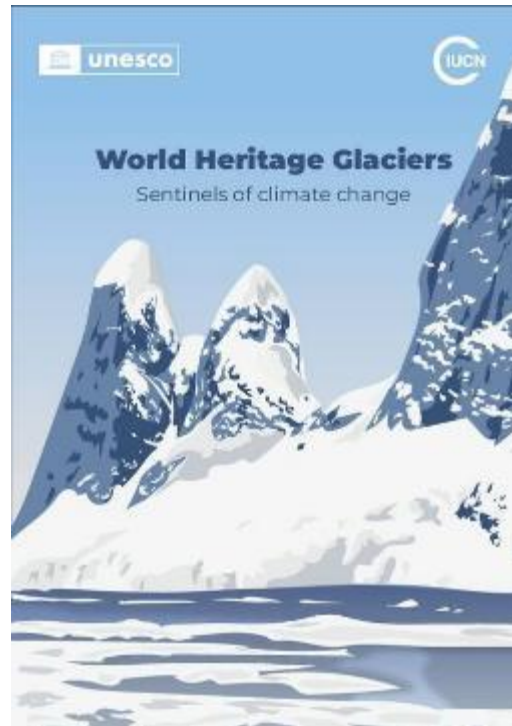


## Glaciers under threat

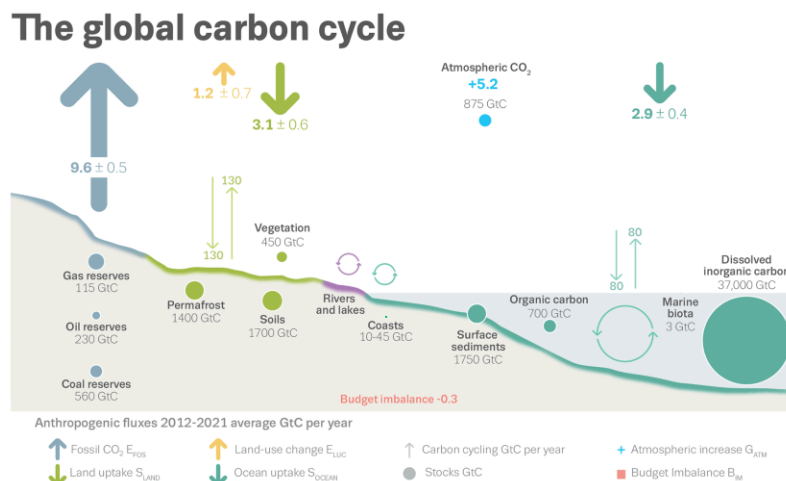
- ❖ As per the UNESCO study, one third of the glaciers on the UNESCO World Heritage list are under threat.
- ❖ These glaciers have been retreating at an accelerated rate since 2000 due to CO2 emissions, which are warming temperatures.
- ❖ Fifty UNESCO World Heritage sites are home to glaciers, representing almost 10% of the Earth's total glacierised area.
- ❖ They include the highest (next to Mt Everest), the longest (in Alaska), and the last remaining glaciers in Africa.
- ❖ The UNESCO study has partnership with the International Union for Conservation of Nature (IUCN).
- ❖ They are currently losing 58 billion tons of ice every year.



- ❖ It is equivalent to the combined annual water use of France and Spain.
- ❖ They are responsible for nearly 5% of observed global sea-level rise.
- ❖ The glaciers under threat are in Africa, Asia, Europe, Latin America, North America and Oceania.



## Global Carbon Budget 2022



- ❖ The report was released by the Global Carbon Project – a group of scientists who track carbon emitted by human activities.
- ❖ This report shows no sign of CO<sub>2</sub> decrease in atmosphere.



- ❖ The Earth urgently needs to limit warming to 1.5 degree Celsius.
- ❖ The global carbon emissions are expected to reach 40.6 billion tonnes of carbon dioxide into the atmosphere in 2022.
- ❖ This projection is close to the highest-ever annual total of 40.9 billion tonnes of CO<sub>2</sub> emitted in 2019.
- ❖ The projected emissions decrease in China (0.9 percent) and in the European Union (0.8 percent), but increase in the US (1.5 percent), India (6 percent) and the rest of the world (1.7 percent).
- ❖ In India, emissions in 2022 are to increase by 6 percent, driven mostly by a 5 percent increase in coal emissions.
- ❖ In 2021, China (31 per cent), the United States (14 per cent) and the European Union (8 per cent) are the major contributors of the global carbon emissions.
- ❖ India accounted to 7 per cent of the global carbon emissions.
- ❖ India is expected to witness the highest increase in carbon emissions in the world in 2022 when compared with the previous year.
- ❖ The United States is estimated to record the second-highest increase in the carbon emissions.
- ❖ India is ranked third globally in terms of gross emission volume and ranked very low in per capita emissions.

### **Long Term-Low Emission Development Strategy (LT-LEDS)**

- ❖ At the 27th UN Conference of Parties (COP27) in Egypt's Sharm el-Sheikh, India submits this to the United Nations Framework Convention on Climate Change (UNFCCC).
- ❖ The 195 member countries of the UNFCCC were obliged to submit this document by 2022.
- ❖ India's LT-LEDS was launched to transition to a "low emissions" pathway.
- ❖ The LT-LEDS has been prepared in the framework of India's right to an equitable and fair share of the global carbon budget.
- ❖ It is premised on expanding its nuclear power capacity by at least three-fold in the next decade.
- ❖ It further focuses on the increased use of biofuels, especially ethanol blending in petrol.
- ❖ It also envisages maximising the use of green hydrogen fuel to drive the low carbon development of the transport sector.

## India's road to 'net zero'

At COP-27, India announced its long-term strategy to transition to a 'low emissions' pathway to become carbon neutral by 2070

### KEY MILESTONES

- The National Hydrogen Mission, launched in 2021, aims to make India a green hydrogen hub
- At least a three-fold increase in nuclear capacity by 2032
- Achieving an ethanol blending target of 20% by 2025

- Maximising the use of electric vehicles, increase public transport
- Increased climate finance to be provided by developed nations
- The long-term strategy aims at keeping global temperatures well below 2 degrees Celsius and, ambitiously, 1.5 degrees Celsius by the century-end



Environment Minister  
Bhupendra  
Yadav at  
the COP-27  
summit in  
Egypt on  
Monday.  
REUTERS

## The Methane Alert and Response System (MARS)



- ❖ It was launched at the COP27 to the United Nations Framework Convention on Climate Change in Sharm El-Sheikh, Egypt.
- ❖ It is a part of global efforts to slow climate change by tackling global warming gas.
- ❖ It was set up as part of the UNEP International Methane Emissions Observatory (IMEO) strategy.
- ❖ It is a satellite-based system that enables governments to detect methane emissions and take measures to address them.
- ❖ It will be the first publicly available global system to connect methane detection to notification processes transparently.
- ❖ According to the Intergovernmental Panel on Climate Change (IPCC), the world must cut methane emissions by at least 30 % by 2030.
- ❖ It is the goal of the Global Methane Pledge – to keep the 1.5°C temperature limit within reach.

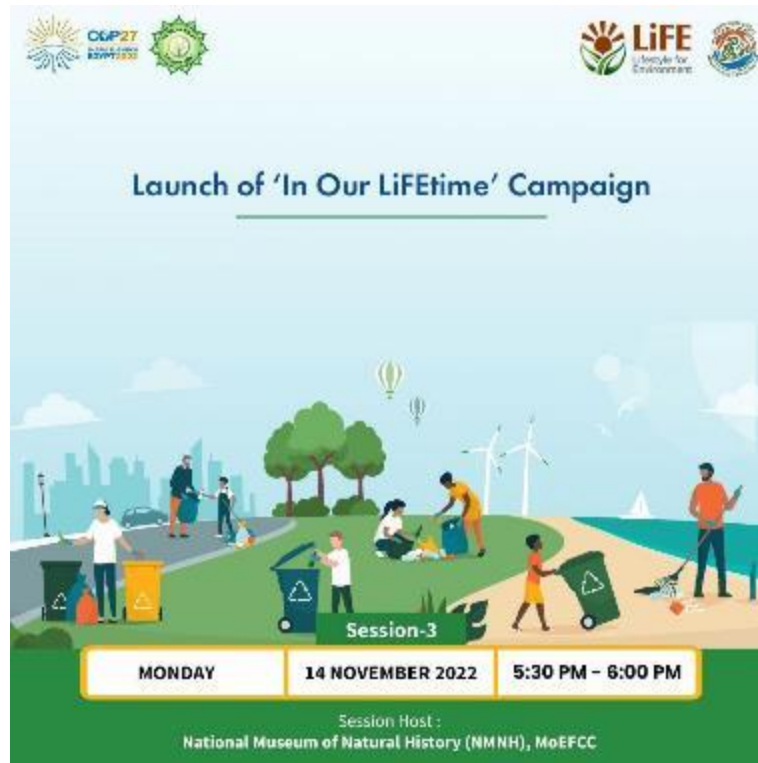
## **Global Shield Plan**

- ❖ A G7-led plan called Global Shield was launched at the U.N. COP27 summit held at Egypt.
- ❖ It is a funding mechanism that provides funding to countries suffering climate disasters.
- ❖ It aims to complement, not replace, the progress on ‘loss and damage’.
- ❖ Pakistan will be among the first recipients of funding from the G7 ‘Global Shield’ initiative.
- ❖ The Group of 7 (G7) and the V20 group of climate-vulnerable countries are the coordinators to this plan.
- ❖ The Vulnerable Twenty (V20) Group of Ministers of Finance of the Climate Vulnerable Forum (CVF) is a dedicated cooperation initiative of economies systemically vulnerable to climate change.



## **“In Our LiFEtime” campaign**

- ❖ The National Museum of Natural History (NMNH), under the Ministry of Environment, Forest and Climate Change and UNDP, jointly launched “In Our LiFEtime” campaign.
- ❖ It was launched at COP 27 at Egypt.
- ❖ This campaign envisions to recognize youth between the ages of 18 to 23 years to become message bearers of sustainable lifestyles.
- ❖ The campaign gives a global call for ideas from youth across the world who are passionate about living environment conscious lives.



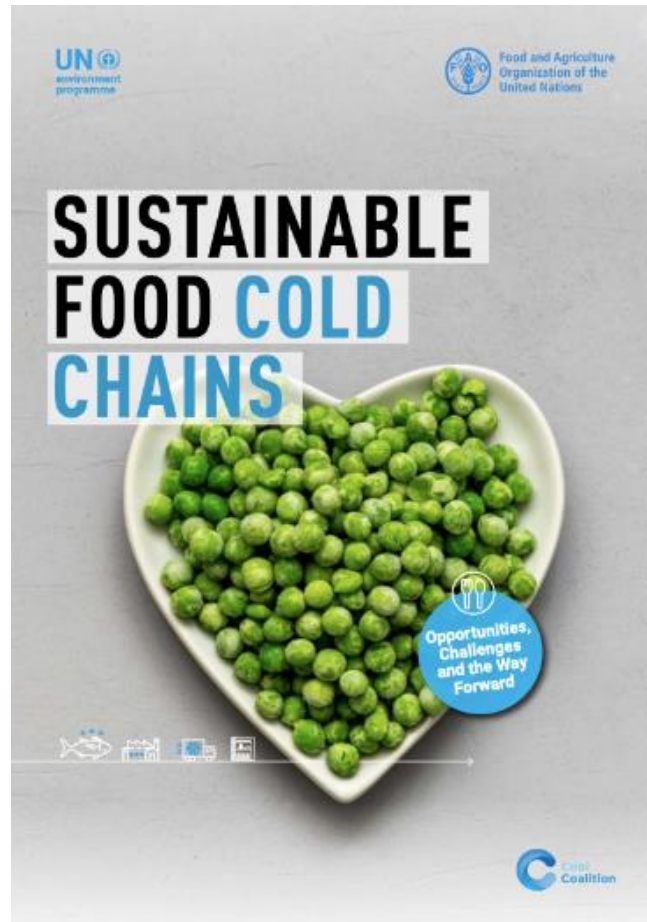
## LeadIT Summit



- ❖ India and Sweden hosted this summit, on the side-lines of COP27 at Sharm El Sheikh in Egypt.
- ❖ The Leadership for Industry Transition-LeadIT initiative focuses on low carbon transition to abate the industrial sector.
- ❖ LeadIT was launched by the Prime Ministers of Sweden and India with support from the World Economic Forum (WEF) during the UN Secretary-General's Climate Action Summit in 2019, in New York.
- ❖ The current phase of LeadIT is set to conclude in 2023,
- ❖ And the next year is the time to reflect on the performance and achievements so far.

- ❖ Currently, the Group has a membership of 16 countries and 19 companies including Dalmia Cement, Mahindra Group and SpiceJet from India.
- ❖ Its secretariat is hosted by Stockholm Environment Institute (SEI), Sweden.

### India's Cold Chain Project



- ❖ At the 27th COP to the UN Framework Convention on Climate Change held at Sharm El-Sheikh of Egypt, the “Sustainable Food Cold Chains: Opportunities, Challenges and the Way Forward” report was launched.
- ❖ Cold chains in the food processing, packaging, distribution and consumption systems are critical for pulling millions of people out of the cycle of hunger and poverty.
- ❖ These will help meet the challenge of feeding an additional two billion people by 2050.
- ❖ Food loss and waste also accounted for 8-10% of global greenhouse gas emissions (GHG).

## Water Adaptation and Resilience Action Plan



- ❖ 27th COP has launched Water Adaptation and Resilience Action Plan, formerly known as Action on Water Adaptation or Resilience (AWARe).
- ❖ It was with an Africa-first focus, giving hope to drought-ravaged populations, especially in the Horn of Africa.
- ❖ It is the result of collaboration between the African Union (AU), Water and Climate Coalition Leaders, the World Meteorological Organization (WMO) and the African Ministers' Council on Water (AMCOW), among others.
- ❖ It has global water information services like accurate hydrological data to help understand the scarcity and availability of water per region; water and climate stock take and a cryosphere information mechanism.

## E-waste (management) rules 2022

- ❖ It will come into force from 1 April next year and apply to every manufacturer, producer refurbisher, dismantler and recycler of e-waste.
- ❖ India is the third-largest e-waste generator in the world after China and the USA as per the Global E-waste Monitor 2020.
- ❖ E-Waste refers to all items of electronic and electrical equipment (EEE) and its parts that have been discarded by their owner as waste without the intent of re-use.
- ❖ Under E-Waste Management Rules 2016, it is mandatory for the organization to comply with the Extended producer responsibility of recycling e-waste.
- ❖ In this, the Extended Producer Responsibility Certificates (similar to carbon credit mechanism) will allow the offsetting of e-waste responsibility to a third party.
- ❖ It restricts the use of hazardous substances (such as lead, mercury, and cadmium) in manufacturing electrical and electronic equipment.
- ❖ It increases the range of electronic goods covered e.g., laptops, mobile, cameras etc.

- ❖ Producers of electronic goods have to ensure at least 60% of their electronic waste is collected and recycled by 2023 with targets to increase them to 70% and 80% in 2024 and 2025, respectively.
- ❖ The 'Environmental compensation' is to be provided by the companies that don't meet their target.



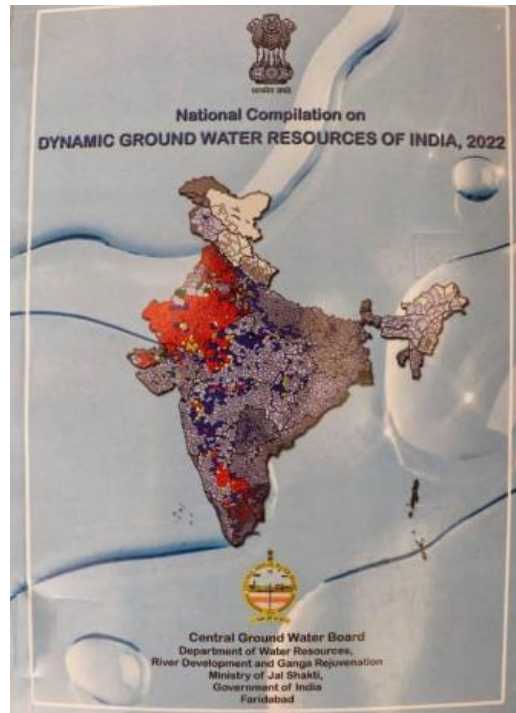
### 14th meeting of the Conference of the Contracting Parties

- ❖ The 14th meeting of the Conference of the Contracting Parties (COP14) to the Ramsar Convention on Wetlands was co-hosted by Wuhan (China) and Geneva (Switzerland).
- ❖ During the event, the Wuhan Declaration was adopted and a report on Ramsar sites was released.
- ❖ Information on 75 per cent of wetlands in the list of Ramsar Sites is outdated.
- ❖ Parties to the Ramsar Convention are required to update the Ramsar Information Sheets (RIS) for their Ramsar sites at least once in every six years.





## Dynamic Ground Water Resource Assessment 2022 Report



- ❖ An assessment report on groundwater by the Central ground water board under the Ministry of Jal Shakti was released recently.
- ❖ India is the largest user of Groundwater, accounting for 1/4th of total withdrawal.
- ❖ Water Extraction is very high in Haryana, Punjab and Rajasthan etc.
- ❖ 87% of Ground Water is used for Irrigation.

## Carbon Border Tax



- ❖ The European Union has proposed a policy called the Carbon Border Adjustment Mechanism which BASIC countries have opposed.
- ❖ The Carbon Border Adjustment Mechanism (CBAM) is an initiative of European Union (EU) to prevent carbon leakage from extremely carbon intensive imports.
- ❖ Under this, duties will be imposed on imported goods based on the carbon expended in producing them.
- ❖ The duty imposed is an equivalent cost on imports to level the playing field between foreign and domestic producers.
- ❖ BASIC is a grouping of four newly industrialized countries namely, Brazil, South Africa, India and China.

### **CITES COP 19 – Red crowned Roofed Turtle**

- ❖ The 19th Conference of the Parties (COP19) to CITES was held in Panama.
- ❖ The Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES) is also known as the Washington Convention.
- ❖ It is also known as the World Wildlife Conference.
- ❖ It is an international agreement between governments and is legally binding on the Parties.
- ❖ Its aim is to ensure that international trade in specimens of wild animals and plants does not threaten the survival of the species.
- ❖ India has proposed improving the protection of the red-crowned roofed turtle (Batagur kachuga) under this CITES.
- ❖ It is a species of freshwater reptile native to India and Bangladesh.



## Forest and Climate Leaders' Partnership (FCLP)



- ❖ 26 countries together with the European Union launched FCLP at COP27.
- ❖ It aims to unite actions by government, business and community leaders to halt forest loss and land degradation by 2030.
- ❖ But India is not part of it.

## Green Maritime Sector

- ❖ India- Norway join hands for a Green Maritime Sector.
- ❖ Ministry of Ports Shipping and Waterways has prepared Maritime India Vision 2030 identified more than 150 initiatives across various maritime sectors.
- ❖ India Norway is part of the Green Voyage 2050 project.
- ❖ India is a signatory to Hongkong Convention for Recycling of Ships.

## Loss and damage fund

- ❖ COP27 at Sharm el-Sheikh in Egypt have resulted in a landmark decision to create the first-ever 'Loss and Damage Fund'.
- ❖ It aims to compensate developing nations for harm caused by climate extremes.
- ❖ But there was little progress on other key issues, such as India's call for "phasing down" all fossil fuels.



## Black-Naped Pheasant-Pigeon



- ❖ Black-Naped Pheasant-Pigeon was rediscovered after 140 years.
- ❖ It was first and last seen in 1882.
- ❖ In September 2022, they found the species at the western slope of Mount Kilkerran – the highest peak of Fergusson Island.
- ❖ This is only the second time in history that the species has been spotted.
- ❖ It is a large, terrestrial pigeon having black and orange feathers and red eyes.
- ❖ The species is endemic to Fergusson Island in Papua New Guinea.
- ❖ It split from the species *Otidiphaps nobilis*, which diverged from all other species some 26.1 million years ago.
- ❖ In July 2021, though the species' population is undetermined, it was listed as a critically endangered.
- ❖ Its estimated population is 50 to 249 birds.

## Great knot





- ❖ A great knot from Russia, belonging to the endangered *Calidris tenuirostris* (Horsfield, 1821), has found its way to Kerala's coast.
- ❖ They are flying over 9,000 km for a winter sojourn.
- ❖ The migratory bird that traversed the Central Asian Flyway (CAF) is only one of the two.
- ❖ The other has been sighted at Jamnagar in Gujarat.

### **Top CDP's climate action list**

- ❖ Mumbai has become the first Indian city to be added to the A-list in the 5th Annual Cities Report published by CDP.
- ❖ Mumbai was able to attain despite the challenging global economic situation.
- ❖ The city has recently released its first-ever Climate Action Plan in 2022, 'Towards a Climate Resilient Mumbai'.
- ❖ It outlines the aims to reach net-zero carbon neutrality by 2050
- ❖ 122 cities across the globe have been named as leaders in environmental action and transparency in 2022 by CDP.
- ❖ For the first time, this includes cities from several countries in the Global South, including Mumbai.
- ❖ Recent CDP data shows that 80 percent of cities face climate hazards, from drought to floods.
- ❖ These are expected to be more intense and frequent by 2025 for 25 percent of cities.

| The 2022 Cities A List                    |                |
|---|----------------|
| City                                      | Region         |
| City of Mumbai                            | South Asia     |
| Dipolog City                              | Southeast Asia |
| Islavandar Regional Development Authority | Southeast Asia |

## REPORTS AND INDICES

### World's Best Employers ranking 2022

- ❖ Forbes' recently released World's Best Employers ranking 2022.
- ❖ Reliance Industries Ltd is ranked India's best employer and among top 20 worldwide.
- ❖ The Forbes list is topped by South Korean smartphone and electronics maker Samsung.
- ❖ It is followed by tech giants Microsoft, IBM, Alphabet, and Apple.
- ❖ Reliance Industries occupies 20<sup>th</sup> place on the list and is the only Indian company in the top 100.
- ❖ Only 7 Indian companies figure in the top 500 in the list.
- ❖ Other Indian firms in the list are: HDFC Bank, (137), Bajaj (173), Aditya Birla Group (240), Larsen & Toubro (354), ICICI Bank (365), HCL Technologies (455), and State Bank of India at 499<sup>th</sup> place.

| BEST EMPLOYERS |                     |             |     |               |       |
|----------------|---------------------|-------------|-----|---------------|-------|
| Rank           | Company             | Country     |     |               |       |
|                |                     |             | 20  | Reliance      | India |
| 1              | Samsung Electronics | South Korea | 137 | HDFC Ltd      | India |
|                |                     |             | 173 | Bajaj         | India |
| 2              | Microsoft           | US          | 240 | Aditya Birla  | India |
| 3              | IBM                 | US          | 333 | Hero MotoCorp | India |
| 4              | Alphabet            | US          |     |               |       |
| 5              | Apple               | US          |     |               |       |

Source: Forbes' World's Best Employers rankings 2022

### QS Asia University Rankings 2023

- ❖ UK-based ranking authority Quacquarelli Symonds (QS) released a QS Asia University Rankings 2023.
- ❖ The 2023 ranking is the 15<sup>th</sup> edition.
- ❖ It highlights the top universities in the continent of Asia.
- ❖ The rankings are based on 11 indicators.
- ❖ The top performer is China's Peking University.
- ❖ It held second position in the 2022 ranking.
- ❖ Other top performers are National University of Singapore and China-based Tsinghua University.

- ❖ 5 universities from China secured their places in top 10 performers.
- ❖ A total of 118 Indian institutes featured in the ranking.
- ❖ 5 IITs, IISc and Delhi University entered the top 100 in the ranking.
- ❖ Total of 19 Indian universities featured in the top 200.
- ❖ IIT-Bombay (40) is the top performer in the ranking.
- ❖ The second-best performer in India is IIT Delhi (46<sup>th</sup> place).
- ❖ Indian Institute of Science (IISc), Bangalore was ranked at 52<sup>nd</sup> position.
- ❖ It followed by IIT Madras (53), IIT Kharagpur (61), IIT Kanpur (66), and Delhi University (85).



### **WMO Report - State of the Global Climate in 2022**

- ❖ The report titled 'WMO Provisional State of the Global Climate 2022' released at the 27th Conference of Parties to the UNFCCC.
- ❖ It stated that the rate of sea level rise has doubled since 1993.
- ❖ It has risen by nearly 10 mm since January 2020 to a new record high this year.
- ❖ The past two-and-a-half years account for 10% of the overall rise in sea level.
- ❖ The global mean temperature in 2022 is estimated to be 1.15 degree Celsius above the pre-industrial (1850-1900) average.
- ❖ It is making the eight years from 2015 the warmest on record.
- ❖ The figures used in the provisional 2022 report are till the end of September this year.
- ❖ The final version will be issued next April.
- ❖ La Nina conditions are keeping the global temperature low for the second consecutive year.
- ❖ But 2022 is still most likely to be the fifth or sixth warmest year on record.

- ❖ The 10-year average for the period 2013-2022 is estimated to be 1.14 degrees Celsius above the pre-industrial baseline.
- ❖ This compares with 1.09 degrees Celsius from 2011 to 2020.
- ❖ Around 700 people died due to floods and landslides, and another 900 from lightning.
- ❖ Floods also triggered 6,63 000 displacements in Assam,



### **Forbes Asia's Power Businesswomen 2022 list**



- ❖ Forbes Asia unveiled its annual 'Asia's Power Businesswomen' list which features 20 women from the Asia-Pacific region.
- ❖ Soma Mondal, Ghazal Alagh and Namita Thapar are the three women who have featured in the list from India.
- ❖ Ghazal Alagh is the co-founder, Honasa Consumer and other personal care brands.

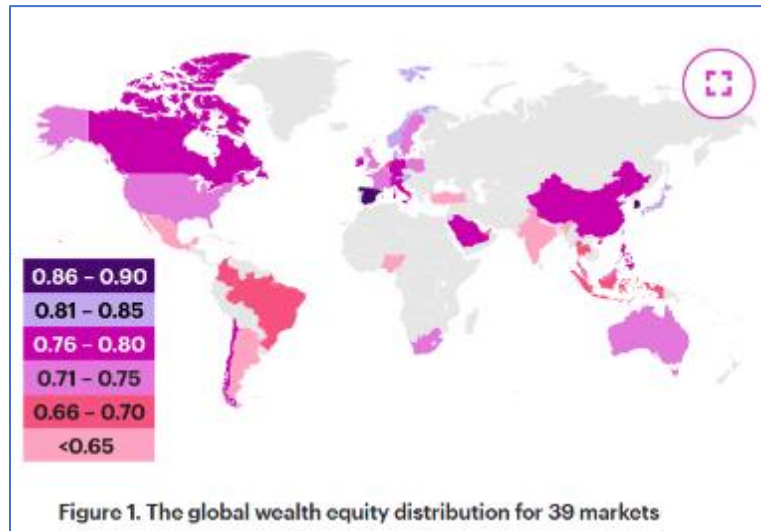




- ❖ Soma Mondal is the first woman to chair state-run Steel Authority of India Ltd.
- ❖ Namita Thapar is the executive director, India business of Emcure Pharma.
- ❖ Other women who feature on the list includes
  - Choi Soo-yeon-CEO of, South Korea's largest internet company- Naver
  - Japan's twin sisters Anna Nakajima and Mizuki Nakajima - co-founders of smartphone gaming app Coly
  - Wallaya Chirathivat - President director and CEO of Thailand's Central Pattana.

### **WTW Global Gender Wealth Equity report**

- ❖ Global Gender Wealth Equity Report was jointly developed by Willis Towers Watson (WTW) and the World Economic Forum.
- ❖ It explores gender-based wealth differences across five regions in the world.
- ❖ It assesses the reasons behind the inequality like interlinked effects of career, family support, life events and financial literacy.
- ❖ It quantifies gender wealth gap between women and men at retirement.
- ❖ when women retire from work, will have just 74 per cent of wealth accumulated by men.
- ❖ India has the worst gender wealth gap in the Asia-Pacific.
- ❖ India's gender pay gap is higher than the global average.
- ❖ Leadership roles for women are limited.
- ❖ Only 3 per cent of women in workforce hold senior-level positions.
- ❖ Long-term financial decisions generally rest in the hands of men.
- ❖ Financial literacy of working women is low in India.
- ❖ On average, Asia-Pacific has one of the lowest global wealth gaps.
- ❖ Women in this region amass just around three-quarters (76 per cent) of men's wealth levels.
- ❖ It is just 2 points above the global average.
- ❖ In the Asia-Pacific region, gender wealth gap across 12 countries is between 64 per cent in India and 90 per cent in best performer - South Korea.
- ❖ Women in six countries in the index have higher wealth at retirement when compared with the global average.
- ❖ These include China (78%), Japan (82%), Philippines (79%) and Singapore (79%).



### **State of Food and Agriculture report 2022**

- ❖ The State of Food and Agriculture (SOFA) is one of the annual flagship reports released by the UN Food and Agriculture Organization (FAO).
- ❖ It provides comprehensive insights into the various issues related to the field of food and agriculture based on science-based assessment.
- ❖ It covers topics that are important for rural and agricultural development as well as global food security.
- ❖ The report looked at 27 case studies from all over the world, representing different technologies.
- ❖ Only 10 of the 27 service providers are profitable and financially sustainable.
- ❖ There are significant differences in the spread of automation technologies between and within countries.
- ❖ The adoption is especially limited in sub-Saharan Africa.
- ❖ Agriculture in this region is dominated by human and animal power, limiting the productivity significantly.
- ❖ The report recommends setting up sustainable rental mechanisms to address this issue.

### **Citizen Perception Survey (CPS)**

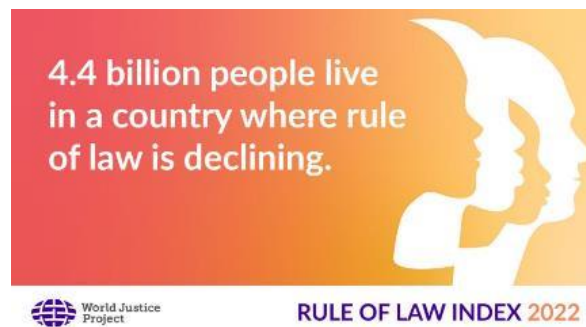
- ❖ The Ministry of Housing and Urban Affairs (MoHUA) launched CPS to directly capture the perception of citizens with respect to the quality of life.
- ❖ It carries 30% weightage in the Ease of Living Index and is undertaken by the National Institute of Urban Affairs and Quality Council of India.

- ❖ It was the part of the Ease of Living Index.
- ❖ The Ease of living index and Municipal Performance Index are the assessment tools used by the Ministry of Housing & Urban Affairs to evaluate the quality of life and the impact of various initiatives for urban development in the city.



### **Rule of Law Index 2022**

- ❖ World Justice Project released this report.
- ❖ It said that the global Rule of Law has declined for the fifth year in a row.
- ❖ India has been ranked 77 (out of 140 countries).
- ❖ It was topped by Denmark.
- ❖ The World Justice Project (WJP) is an international civil society organization with the stated mission of "working to advance the rule of law around the world".

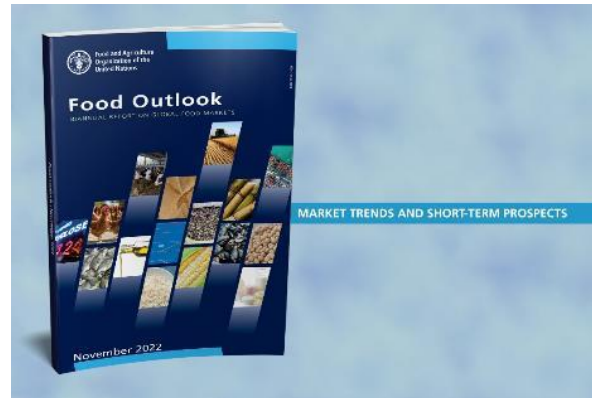


### **Global Vaccine Market Report 2022**

- ❖ The WHO has released this report to capture the implication of COVID-19 on global vaccine markets.
- ❖ As per the report, the Vaccine supply is concentrated in hands of a few countries and a few manufacturers.

- ❖ Only 10 manufacturers provide 70% of the vaccine doses (excluding the COVID vaccine).
- ❖ Africa received only 3% of the total COVID vaccine doses.

## **Food Outlook**



- ❖ It is the biannual Food Outlook report released by the Food and Agriculture Organization (FAO).
- ❖ The year 2022 is expected to witness the world's food import bill reaching an all-time high.
- ❖ The high production of Wheat is mainly expected to be concentrated in China and Russia.

## **State of the Climate in Asia 2021**

- ❖ It was released by the World Meteorological Organization (WMO) and UN Economic and Social Commission for Asia and the Pacific (ESCAP) at the COP27 in Egypt.
- ❖ In 2021, China witnessed the highest economic loss in Asia.
- ❖ The second highest loss was experienced by India.
- ❖ Flooding caused the highest economic loss in China, followed by India and Thailand.
- ❖ Storms caused damages to economy in India, China and Japan.

## **Climate Change Performance Index 2023**

- ❖ It is compiled by three environmental non-governmental organisations – German watch, New Climate Institute and the Climate Action Network.
- ❖ It is an independent monitoring tool for tracking the climate protection performance of the European Union and 59 countries.

- ❖ Together the European Union and 59 countries in the CCPI 2023 account for more than 92% of the greenhouse gas (GHG) emissions in the world.
- ❖ The rankings are based on how well the countries are doing to halve their emissions by 2030.



## CCPI 2023: RANKING



**#CCPI2023**

- ❖ The report leaves the first 3 places empty as "no country performed well enough in all index categories to achieve an overall very high rating".
- ❖ It puts Denmark in fourth place, followed by Sweden and Chile.
- ❖ Iran, Saudi Arabia and Kazakhstan fared the worst.
- ❖ In the CCPI 2023, India rose two spots to rank 8th out of 63, due to its low emissions and the increasing use of renewable energy.
- ❖ The report said India is "on track" to meet its 2030 emissions targets.

- ❖ However, the renewable energy pathway is not on track for the 2030 target.
- ❖ India earned a high rating in the GHG Emissions and Energy Use categories, while it got a medium rating in Climate Policy and Renewable Energy sections.
- ❖ Since the last CCPI, India has updated its Nationally Determined Contribution (NDC) and announced a net-zero target for 2070.
- ❖ The report noted that India is among the nine countries responsible for 90% of global coal production and it also plans to increase its oil, gas, and oil production by more than 5% by 2030.
- ❖ Since the last Climate Change Performance Index, India has updated its Nationally Determined Contribution (NDC) and has also announced a net-zero target for 2070.
- ❖ Net Zero means achieving the balance between the greenhouse gases put into the atmosphere and those taken out.

### **Financing India's Infrastructure Needs Report**

- ❖ “Financing India’s Infrastructure Needs: Constraints to Commercial Financing and Prospects for Policy Action” was released recently by the World Bank.
- ❖ India is expected to require some 840 billion USD over the next 15 years.
- ❖ The report predicts that over 600 million people will live in Indian cities by 2036.
- ❖ This accounts for 40 per cent of the total population.



### **World Wildlife Trade Report**

- ❖ The first-ever World Wildlife Trade Report was released at the 19th Conference of Parties to CITES held at Panama City.
- ❖ It is the first COP to CITES to be held in the region since 2002.
- ❖ 3.5 million CITES shipments were reported in direct trade by exports between 2011 and 2020.

- ❖ This accounts for 1.3 billion individual organisms and 279 million kg of products reported by weight.
- ❖ Asia and Europe are the top exporters and importers of wildlife trade.
- ❖ Asia accounted for 37 per cent of export transactions and 31 per cent of import transactions.
- ❖ Asia and Africa account for the highest proportion of the global export value.
- ❖ The annual revenue generated by the global legal trade in wildlife (CITES and non-CITES) is around 220 billion USD.
- ❖ Across all animal commodities, the export of reptiles and fish accounted for over 72 per cent of the average annual value of global CITES-listed exports.



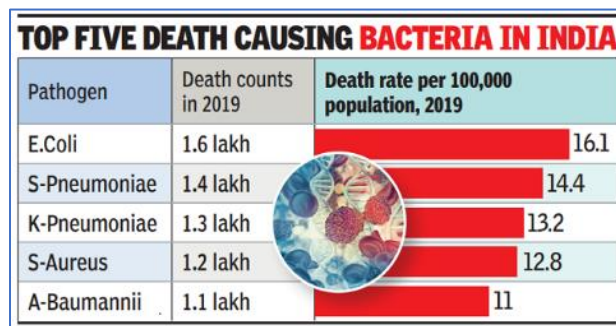
### **Network Readiness Index 2022**

- ❖ The Network Readiness Index 2022 was released by Portulans institute, a US-based non-profit organization.
- ❖ The report assesses a network-based preparedness scenario based on their performance in four different pillars of 131 economies – technology, people, governance and impact.
- ❖ US is the top performer in this index, Singapore and Sweden are in second and third place respectively.
- ❖ Singapore is the country making the most progress in this index.
- ❖ It has moved from 7th position to second place, pushing Denmark (6<sup>th</sup>) and Finland(7<sup>th</sup>).
- ❖ The top performing country in Asia Pacific is Singapore, followed by South Korea and Japan.
- ❖ India (61<sup>st</sup> rank) ranks third among 36 lower-middle-income countries after Ukraine and Indonesia.



## Bacteria and Deaths

- ❖ Five bacteria types - E. coli, S. pneumoniae, K. pneumoniae, S. aureus and A. baumannii caused nearly 6.8 lakh deaths in India in 2019.
- ❖ This study published in the Lancet journal.
- ❖ E. Coli was the deadliest pathogen, claiming 1,57,082 (1.57 lakh) lives in India in 2019.
- ❖ Common bacterial infections were the second-leading cause of death in 2019.
- ❖ They were linked to one in eight deaths globally.
- ❖ There were 7.7 million (77 lakh) deaths in 2019 associated with 33 common bacterial infections.
- ❖ These five bacteria alone connected to more than half of all deaths.
- ❖ Five pathogens – S. aureus, E. coli, S. pneumoniae, K. pneumoniae, and P. aeruginosa – were responsible for 54.2% of deaths among the bacteria studied.
- ❖ The pathogen associated with the most deaths globally was S. aureus, with 1.1 million deaths.
- ❖ Sub-Saharan Africa recorded the highest mortality rate, with 230 deaths per 100,000 population.
- ❖ The most deaths in children aged 5 to 14 years were associated with Salmonella enterica serovar Typhi, with 49,000 deaths.





## STATES

### 100 percent household tap connections



- ❖ Gujarat has been declared as a 100 percent 'Har Ghar Jal' state.
- ❖ In Gujarat, households in rural areas have access to safe drinking water through taps under the 'Har Ghar Jal' mission.
- ❖ The 'Har Ghar Jal' was launched by Prime Minister in 2019.
- ❖ It aims to make available 55 liters of water per person every day to each rural household through household tap connections by 2024.

### 1st Net Zero Energy Community

- ❖ Gujarat's Modhera has been declared as India's first 24X7 solar-powered village.
- ❖ It is also a 'net-zero' energy community, meeting 100 per cent of its energy requirements using on-site solar power.
- ❖ At present nearly 1,380 households in the Modhera area have solar rooftop systems.
- ❖ This has been achieved as a result of Project Suryagram (Sun Village).

## **First Indian Geo-Heritage Site**



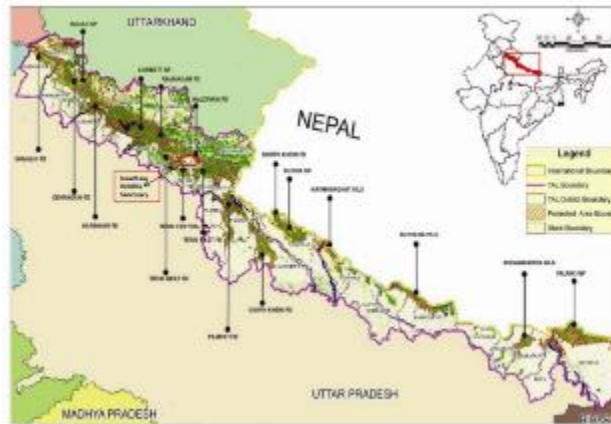
- ❖ The International Union of Geological Sciences (IUGS) has recognised the Mawmluh Cave, as one of the first 100 IUGS geological heritage sites.
- ❖ It is located in the East Khasi Hills district of Meghalaya.
- ❖ With a length of 7.2kms, Mawmluh Cave is the fourth longest cave in the Indian subcontinent.
- ❖ The cave is a long maze with many openings and is decorated with stalactites, stalagmites, columns, drapes and moon milk.
- ❖ Another prime feature of the cave is the pool inside the cave that is formed from five different rivers that pass through the cave.

## **Agartala-Kolkata Express**

- ❖ President Droupadi Murmu flags off first-ever Agartala-Kolkata Express train.
- ❖ The extension of the express trains by the Northern Frontier Railway (NFR) is expected to improve connectivity in the North-Eastern states.



## Terai Elephant Reserve



- ❖ The Centre has approved the setting up of the Terai Elephant Reserve at Dudhwa - Pilibhit in Uttar Pradesh.
- ❖ The Terai Elephant Reserve is the 33rd Elephant Reserve in India which is spread over 3,049 sq km.
- ❖ The Terai Elephant Reserve includes protected areas, forest areas, and corridors for the conservation of wild elephants.

## New IIFT campus



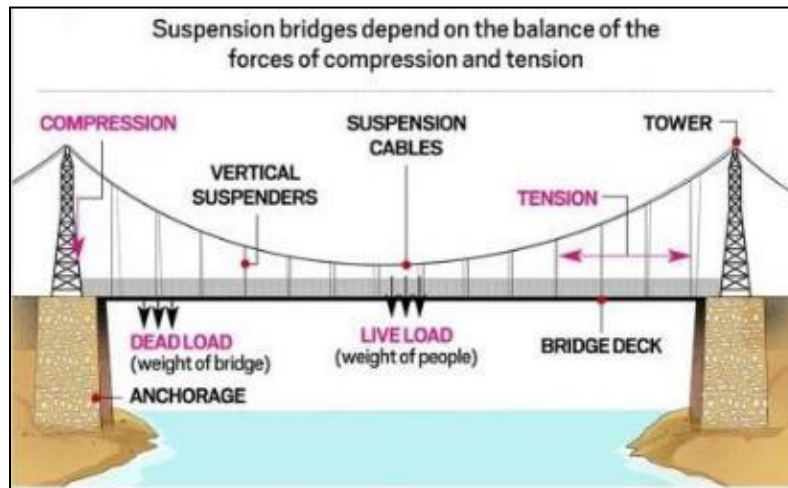
- ❖ Third campus of the Indian Institute of Foreign Trade (IIFT) opened at the Jawaharlal Nehru Technological University in Kakinada.
- ❖ It works as an autonomous body under the Ministry of Commerce & Industry.
- ❖ Its main campus is in New Delhi and new campuses are in Kolkata and Kakinada.

## Viswas Swaroopam

- ❖ 369-foot-tall Shiva statue called “Viswas Swaroopam” that has been inaugurated in Nathdwara, Rajasthan.
- ❖ This is the highest Shiva statue in the entire world.



## Morbi Bridge collapse



- ❖ The 135-year-old suspension bridge (Jhoolto Pul) collapsed after four days of reopening.
- ❖ It was a 230-metre-long (750 ft), 1.25-metre-wide (4.1 ft) pedestrian suspension bridge over the Machchhu River in the city of Morbi, Gujarat.
- ❖ It was built during British rule in India in the 19th century and it was inaugurated on 20 February 1879.

## India's first Aqua Park

- ❖ The existing Tarin Fish Farm, located at high-altitude Bulla village of Arunachal Pradesh, would be upgraded as the Integrated Aqua Park.

- ❖ A fish museum, the first of its kind in the Northeast, would soon be built in Arunachal Pradesh.
- ❖ The museum would be a part of the Integrated Aqua Park.



### **First Electronics Manufacturing Cluster**

- ❖ The government of India approves Maharashtra's first greenfield Electronics Manufacturing Cluster (EMC) at Ranjangaon, Pune.
- ❖ Its objective is to strengthen the electronics manufacturing ecosystem in India.
- ❖ They have already set up in Noida, Tirupati, Karnataka and Tamil Nadu.



### **Committee to Implement Uniform Civil Code**

- ❖ The Gujarat cabinet had decided to form a committee for the implementation of the Uniform Civil Code (UCC) in the state.

- ❖ The committee will be constituted under the leadership of a retired judge of the High Court.
- ❖ Article 44 of the Constitution in Part IV deals with uniform civil code.
- ❖ Goa is the only state in India that has a uniform civil code regardless of religion, gender and cast.
- ❖ It inherited the Portuguese Civil Code, 1867 that is still applicable in the state even after it joined the Indian Union in 1961.

### **'Donyi Polo' Airport**

- ❖ Prime Minister will inaugurate the greenfield 'Donyi Polo airport' at Hollongi in Itanagar, Arunachal Pradesh.
- ❖ The upcoming airport will be the 4<sup>th</sup> operational airport in the State.
- ❖ Itanagar was the only capital city in India that remained unconnected through airways.
- ❖ Arunachal is the largest state of North East India spread from Bhutan in its western border to Myanmar in the east.



### **First bird count – Nagaland**

- ❖ Nagaland is undertaking the first avian documentation exercise to go beyond Amur falcons.
- ❖ The four-day Tokhü Emong Bird Count (TEBC) has been timed with the post-harvest Tokhü Emong festival of the Lothas.
- ❖ Nagaland is a State with diverse festivals and diverse birdlife.
- ❖ The TEBC is the first of initiatives where the community is encouraged to celebrate the festival with birds.

- ❖ The event is a collaboration among the Wokha Forest Division, the Divisional Management Unit of the Nagaland Forest Management Project (NFMP) and Bird Count India.



## **Ganga Utsav 2022**

- ❖ The Ministry of Jal Shakti organized Ganga Utsav - The River Festivals 2022.
- ❖ One of the main objectives of Utsav is to celebrate rivers and spread awareness of the significance of river rejuvenation across river basins in India.
- ❖ It is being developed as a model for River Festivals to connect people to the rivers and inculcate their importance.



## World's First Vedic Clock



- ❖ Madhya Pradesh's Ujjain, will soon boast the world's first Vedic clock.
- ❖ It will be synced with the position of the Sun.
- ❖ The foundation stone was laid at the 300-year-old Jiwaji Observatory in Ujjain.
- ❖ This (Vikramaditya) Vedic clock will be divided into 24 muhurats (hours).

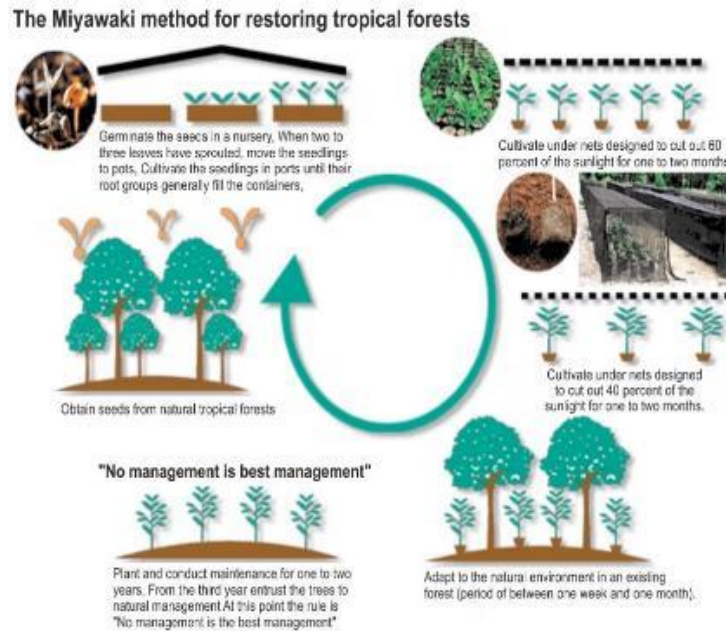
## Grama Vandi – Kerala

- ❖ The KSRTC's "Grama Vandi" was introduced in collaboration with State-level local self-government organisations.
- ❖ Recently, it got the "Commendation Award in Urban Transport" for "City with the Best Public Transport System".
- ❖ This award was established by the Union Housing and Urban Affairs Ministry.
- ❖ The projects are intended to improve public transportation in all Indian cities were taken into consideration.





## Country's largest Miyawaki park



- ❖ The country's largest Miyawaki urban forest spread over 18 acres is hosted by Kavaguda, Hyderabad.
- ❖ This is the country's largest Miyawaki forest, followed by one in Gujarat, spread over 14 acres.
- ❖ The Miyawaki method was pioneered by Japanese botanist Akira Miyawaki.
- ❖ It helps build dense, fast-growing forests with native plants.

## Uniform Gold Price

- ❖ Kerala becomes the first state in India to launch uniform gold prices based on the bank rate.
- ❖ The decision of uniform price is applicable to 916 purity 22-carat gold.
- ❖ Generally, Gold is priced at Rs 150-300 per gram extra over the bank rate.
- ❖ Bank rates on gold, GST, and other taxes including import duty are the same across India.

## Rising Sun Water Festival

- ❖ Rising Sun Water Fest 2022 was concluded at Umiam Lake, Meghalaya.
- ❖ It was a three-day water sport event.
- ❖ It is the first of its kind in the North East.

- ❖ It is also aimed at encouraging the sports-loving youth of North East to take up water sports like Rowing and Sailing.
- ❖ It is an initiative by the Indian Army's Eastern Command with the governments of Assam and Meghalaya.



### **15th Urban Mobility India Conference**

- ❖ The 15<sup>th</sup> edition of the Urban Mobility India Conference and Expo was organised by the Ministry of Housing and Urban Affairs in Kochi.
- ❖ The three-day meet focused on designing and implementing efficient high-quality transport systems in cities.
- ❖ It focusses on the theme “Azadi @75 - Sustainable Atmanirbhar Urban Mobility”.



## Uttarakhand Gaurav Samman



- ❖ National Security Advisor (NSA) Ajit Doval, and late CDS General Bipin Rawat are among five distinguished people for the “Uttarakhand Gaurav Samman” this year.
- ❖ The writer Prasoon Joshi, the late poet and author Girish Chandra Tiwari and late journalist Viren Dangwal will be awarded posthumously with the award.
- ❖ The award was introduced in 2021 by the Uttarakhand Government led by CM Pushkar Singh Dhami, as one of the two highest state-level civilian awards.
- ❖ Another one is Uttarakhand Ratna.
- ❖ People are awarded for their extraordinary contribution to any field of human endeavour.

## Pushkar Fair

- ❖ This year, Pushkar Fair is hosted by Rajasthan.
- ❖ Pushkar Fair is also known as Pushkar Camel Fair, Kartik Mela, or Kartik ka Mela.
- ❖ The Pushkar Fair held without the popular cattle fair due to the spread of lumpy skin disease in livestock.

## Vadodara municipal bond

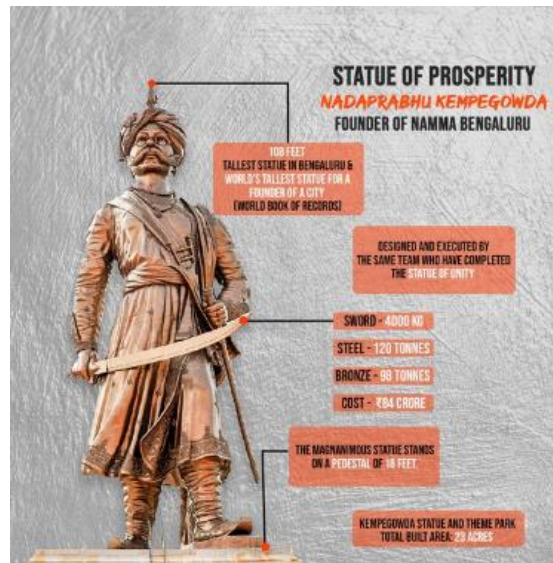
- ❖ Vadodara became the second city in India to issue a municipal bond with assistance from the US Treasury Department’s Office of Technical Assistance.
- ❖ The bond will provide funds for infrastructure projects in Vadodara.
- ❖ Municipal finance can help to pay for vital capital projects including roads, energy, water, sanitation, and other essentials.
- ❖ Pune was the first city to issue such a bond in 2017.

## Mandia Divas – Odisha



- ❖ Odisha celebrated Mandia Divas (Millet Day) on November 10, 2022.
- ❖ It aims to promote millet cultivation and its consumption across the State.
- ❖ In order to improve their condition and ensure nutrition for the people, Odisha launched Millet Mission.
- ❖ UN General Assembly has declared the year 2023 as the International Year of Millets.

## Statue of Prosperity



- ❖ The Prime Minister unveiled the statue of Bengaluru founder Kempegowda in the premises of Bengaluru International Airport.
- ❖ The Statue of Prosperity is also known as the 'Pragatiya Prathime'
- ❖ The statue holds the record in the World Book of Records for the first and tallest bronze statue of a founder of a city.



- ❖ Nadaprabhu Hiriya Kempegowda is a 16th century chieftain of the Vijayanagara Empire.
- ❖ He sought permission from the Vijayanagara emperor Achyutharaya and built Bangalore Fort and the town in AD 1537.
- ❖ He authored Gangagaurivilasa, a yakshagana play in Telugu.
- ❖ The statue was conceptualized and sculpted by Ram V Sutar, who also curated the Statue of Unity.

### **Khelo India National University Games in 2023-24**

- ❖ Uttar Pradesh government will be hosting the Khelo India National University Games in 2023-24 in four cities of the state.
- ❖ These cities are Lucknow, Gorakhpur, Varanasi and Noida.
- ❖ After Odisha and Karnataka, Uttar Pradesh has got the opportunity to host the National University Games for the first time.

### **India Stonemart International Exhibition**



- ❖ The 11th edition of India Stonemart held in Jaipur, Rajasthan.
- ❖ It is a prestigious exhibition of the stone industry,
- ❖ The exhibition was organised by the Center for Development of Stones (CDOS), with FICCI as co-organiser.

### **9th Schedule and Jharkhand**

- ❖ Jharkhand government has passed a bill increasing the reservation in vacant government posts and services to 77%.
- ❖ Thus, it is violating the 50% mandate of the Supreme Court (Indra Sawhney Case).

- ❖ The government has further called for putting the bill in the 9th Schedule to avoid Judicial Review.
- ❖ The Ninth Schedule (inserted Article 31B by the 1st Constitutional Amendment) contains a list of central and state laws which cannot be challenged in courts.
- ❖ Currently, 284 such laws are shielded from judicial review.
- ❖ Article 31B can be applied retrospectively.
- ❖ Although Article 31B excludes judicial review, laws under the Ninth Schedule are open to scrutiny if they are violative of the basic structure of the Constitution (I R Coelho case 2007).
- ❖ So, any law that was added to the Ninth Schedule after April 24, 1973, can be contested.

**Art. 31 B & Ninth Schedule**

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- \* Ninth schedule and Art. 31 B complement each other.
- \* Art 31 B came into effect by way of 1<sup>st</sup> amendment act, 1951
- \* Art 31 B talks about protection given to all acts and regulations mentioned in 9<sup>th</sup> schedule nor any of the provision thereof shall be declared void, or ever have to become void on grounds that such act and regulation takes away or violate the FR
- \* All acts in ninth schedule are provided immunity from judicial review, overriding judgements, decree and order to the contrary, if any.

## **STREET Project**

- ❖ The Kerala Tourism has bagged the prestigious Responsible Tourism Global award at the World Travel Mart held in London.
- ❖ The award was given for the STREET project implemented by the Responsible Tourism Mission under the Kerala Government.
- ❖ STREET is an acronym for Sustainable, Tangible, Responsible, Experiential, Ethnic, and Tourism hubs.

**KERALA TOURISM  
LAUNCHES "STREET"  
PROJECT**

STREET is an acronym for "Sustainable, Tangible, Responsible, Experiential, Ethnic, Tourism hubs". Under the project, themes like Green Street, village life experience street, cultural street, experiential tourism street, water street, agri-tourism street, and art street have been planned. These streets will be in line with the peculiarities of the select locations and will also focus on experiential tourism.

## Wangala Festival of Meghalaya

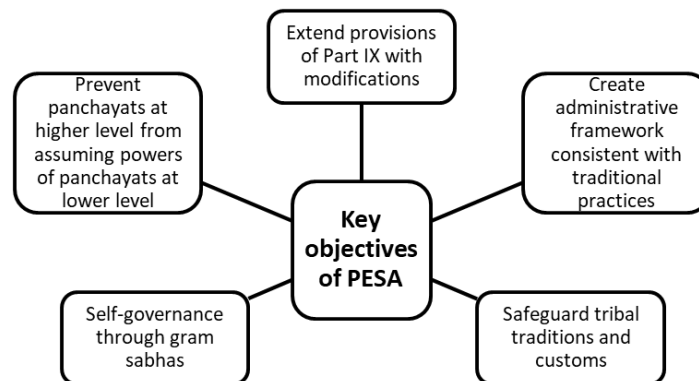
- ❖ It is one of the most popular festivals among the Garo communities of Meghalaya.
- ❖ It is a harvest festival that is held in honour of Saljong, the Sun-God of fertility.
- ❖ It is also known as 100 drum festival.
- ❖ The Garo are Tibeto-Burman ethnic tribe who mainly live in the Indian states of Meghalaya, Assam, Tripura, and Nagaland as well as in the nearby regions in Bangladesh.

## Amur Falcon Festival

- ❖ The Manipur Forest Authority plans to celebrate the 7th edition of the Amur Falcon Festival in Tamenglong district, Imphal.
- ❖ Amur Falcon is the world's longest-flying migratory bird.
- ❖ It is the world's longest-traveling small raptor of the Falcon family.
- ❖ Amur Falcon migrates to their wintering grounds in South Africa.
- ❖ They usually arrive in large numbers during October in Nagaland and Manipur.

## Panchayats Extension to Scheduled Areas (PESA) Act – Madhya Pradesh

- ❖ Madhya Pradesh has implemented the Panchayats Extension to Scheduled Areas (PESA) Act in the state.
- ❖ It aims to preserve the tribal population from exploitation with the active involvement of the Gram Sabhas.
- ❖ PESA Act will also allow the gram panchayats to decide matters that are related to minor forest produce, land, and small water bodies along with an implementation of government schemes.
- ❖ It will also maintain records of the migrant laborers for curbing the bonded labour in these scheduled areas.



### **World First Drone mediated Livestock Vaccines delivery service**

- ❖ Indian Immunologicals Limited's (IIL) animal vaccine has become the world's first vaccine to be transported via drones.
- ❖ Indian Immunologicals Limited, headquartered in Hyderabad, is one of the largest producers of vaccines in Asia
- ❖ TechEagle drone delivery start-up conducted this vaccine delivery for Animal Husbandry in Arunachal Pradesh.
- ❖ The maiden drone flight was undertaken from Roing to Paghlam.
- ❖ After 'Medicine from Sky' success, Arunachal launches drone-mediated livestock vaccines delivery service.
- ❖ Drone delivery of vaccines is expected to not only reach remote difficult terrains faster, but also help in providing critical vaccines on time for the protection of livestock from several diseases.



### **Donyi Polo Airport**

- ❖ Prime Minister inaugurated Donyi Polo Airport, the first Greenfield airport at Itanagar, Arunachal Pradesh.
- ❖ Northeast India will now have 16 airports.
- ❖ The name of the airport reflects the traditions and rich cultural heritage of Arunachal Pradesh.
- ❖ It also, refer the age-old indigenous reverence to the Sun ('Donyi') and the Moon ('Polo') in the state.
- ❖ The Donyi Polo airport will be the third operational airport in Arunachal Pradesh and the first in its capital city Itanagar.





### **Manipur Sangai festival**

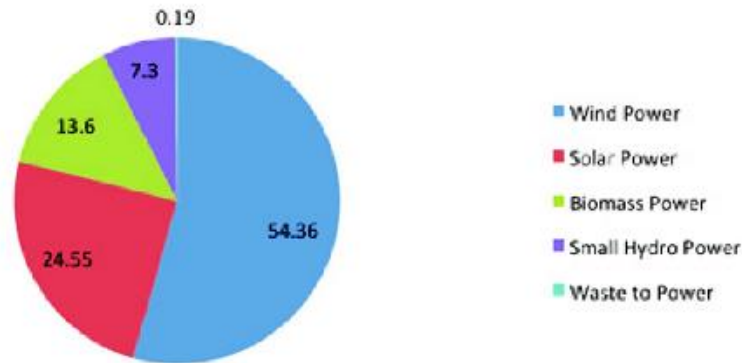
- ❖ Union Tourism Minister G Kishan Reddy inaugurated the 'Manipur Sangai Festival 2022' at the Sangai Ethnic Park.
- ❖ The 10-day-long festival will be held in 13 venues across six districts in the north eastern state till November 30.
- ❖ The festival is celebrated as the 'Festival of Oneness'.
- ❖ It aims to encourage a sense of belongingness, and pride in ownership of the land among the people.



### **First institute of Unani medicine in NE**

- ❖ The southern Assam town of Silchar has got northeast India's first centre of Unani medicine.
- ❖ Unani medicine is a traditional medicinal practice among Ayush systems.
- ❖ It was handed over to the Central Council for Research in Unani Medicine (CCRUM).
- ❖ CCRUM an autonomous organisation under the Union ministry of Ayush.

## Installed Grid-interactive Renewable Power Capacity



- ❖ Karnataka came at the top position while comparing the total installed capacity of grid-interactive renewable power of all the states of the country.
- ❖ The state had a total installed capacity of 15,463 megawatts.
- ❖ Tamilnadu with 15,225 mw, came at the second; Gujarat, with 13,153 mw, was at third position while Maharashtra, with 10,267 mw, was at the fourth.

## Uttar Pradesh's new tourism policy

- ❖ The Uttar Pradesh Cabinet approved the New Tourism Policy.
- ❖ It aims to foster the state's religious potential and also establish the state as the hub of religious and spiritual tourism in the country.
- ❖ The state under the policy will develop separate religious circuits.
- ❖ This includes Ramayana, Mahabharata and Buddhist Circuits.

### DEVELOPING TOURISM HUBS



- Boost to Ramayan, Krishna, Mahabharat, Shaktipeeth and Buddhist circuits
- Promotion of places around religious places & development of eco-tourism and wildlife destinations
- Identification of spiritual tourism destinations. Development of Kabir circuit
- and extension of Jain circuit
- Development of sites and cities related to freedom movement and assistance to 'Yuva Tourism'
- One-time incentive for innovative projects on approval by directorate of tourism committee
- Additional 2% subsidy on total project cost of footage in Focus Tourism Destinations
- Assistance to research in travel/hospitality sector
- 100% reimbursement of hospitality related course fee, per person
- Grant of Rs 5 lakh to individual or group involved in revival of rare art and culture

## PERSONALITIES, AWARDS AND EVENTS

### National Intellectual Property Awards

- ❖ The Indian Institute of Technology Madras (IIT Madras) has been conferred the 'National Intellectual Property Awards 2021 and 2022'.
- ❖ This is awarded for being the top Indian Academic Institution for patents filing, grants and commercialisation.
- ❖ The award is given out by the Department for Promotion of Industry and Internal Trade, Ministry of Commerce and Industry.
- ❖ The main criteria of evaluation for these awards are Patent Applications, Grants and Commercialization.

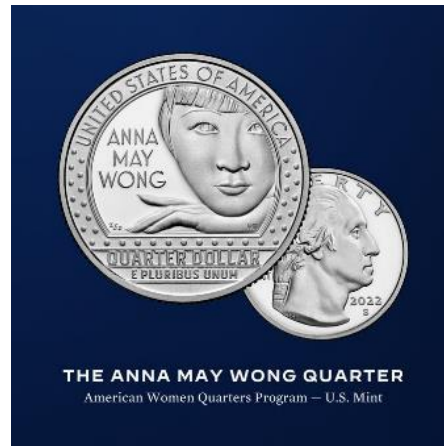


### EU's 2022 Sakharov freedom prize

- ❖ The European Parliament has awarded the people of Ukraine its annual Sakharov Prize for Freedom of Thought to honour their fight against Russia's invasion.
- ❖ The prize, named after the late Soviet dissident Andrei Sakharov, has been awarded annually since 1988 by the European Parliament.
- ❖ This was bestowed to individuals and organizations defending human rights and fundamental freedoms.

### First Asian American on US currency

- ❖ Late Hollywood actress and fashion icon Anna May Wong (1905-1961) is set to become the first Asian American to feature on US currency.
- ❖ This is the fifth coin in the American Women Quarters (AWQ) Program.
- ❖ She is the film industry's first Chinese-American star.



### **World's Dirtiest Man**

- ❖ Amou Haji, an Iranian man dubbed the “dirtiest man in the world,” died recently.
- ❖ He was so-called because he had not washed for almost 70 years.
- ❖ He is believed that staying dirty kept him alive for so long.
- ❖ Owing to his unique record, a short documentary titled ‘The Strange Life of Amou Haji’ was made in 2013, describing his life.



### **Global Digital Health Summit**

- ❖ The first ever two-day Global Digital Health Summit, Expo, and Innovation Awards held in New Delhi.
- ❖ The summit has been organized in association with the world's foremost digital health associations.
- ❖ Global leaders in digital health and healthcare from across the USA, European Union, Africa, UK, and Southeast Asia are participating in the Summit.
- ❖ Theme of the event is Digital Health for All.

## 2021 PMAY-U Awards

- ❖ The PMAY-U Award for Implementation and Innovation was instituted under the Pradhan Mantri Awas Yojana-Urban.
- ❖ The PMAY-U was launched in 2015 to address the housing shortage in India's urban areas.
- ❖ It aims to construct 1.12 crore housing units by 2022.
- ❖ This award is conferred to recognize the efforts by the states, UTs and urban local bodies towards achieving the scheme's objectives.
- ❖ The 2021 Awards are the 2nd edition of these awards.
- ❖ Among the states, the top performers are Uttar Pradesh, Madhya Pradesh, Tamil Nadu
- ❖ The top performing states for the 2019 awards were Uttar Pradesh, Madhya Pradesh and Andhra Pradesh.
- ❖ Among the north-eastern and hilly states, Tripura emerged as the top performer.
- ❖ The state had won an award for 2019 as well.



## SJFI medal





- ❖ The Sports Journalists' Federation of India medal (SJFI medal) for 2019 was presented to badminton legendary star Prakash Padukone.
- ❖ Vijay Amritraj was the inaugural recipient of the award, which was established in 2018.

### **India's Most Generous philanthropist**

- ❖ With an annual donation of Rs 1,161 crore, HCL's founder, Shiv Nadar, has bagged the title of 'India's Most Generous'.
- ❖ This is declared as per the EdelGive Hurun India Philanthropy List 2022.
- ❖ He had donated Rs 3 crore per day.
- ❖ Wipro's Azim Premji slipped to the second spot.
- ❖ Gautam Adani came seventh in the list
- ❖ Among the women, Rohini Nilekani emerged as the most generous woman philanthropist.

| Top 10 philanthropists        | Donation (in ₹ crore) | Primary Cause     | Company             |
|-------------------------------|-----------------------|-------------------|---------------------|
| Shiv Nadar & family           | 1161                  | Education         | HCL Technologies    |
| Azim Premji & family          | 484                   | Education         | Wipro               |
| Mukesh Ambani & family        | 411                   | Education         | Reliance Industries |
| Kumar Mangalam Birla & family | 242                   | Healthcare        | Aditya Birla        |
| Susmita and Subroto Bagchi    | 213                   | Healthcare        | Mindtree            |
| Radha and NS Parthasarathy    | 213                   | Healthcare        | Mindtree            |
| Gautam Adani & family         | 190                   | Disaster Relief   | Adani               |
| Ani Agarwal & family          | 165                   | Disaster Relief   | Vedanta             |
| Nandan Nilekani               | 159                   | Societal Thinking | Infosys             |
| AM Naik                       | 142                   | Healthcare        | Larsen & Toubro     |

### **Activist Ela Bhatt**

- ❖ Renowned women's rights activist Ela Bhatt, the founder of SEWA (Self Employed Women's Association) passed away in Ahmedabad.
- ❖ SEWA is one of the biggest women's cooperatives and national trade unions registered in 1972.
- ❖ SEWA had founded a bank in 1974 to give small loans to women, charted newer territory.

- ❖ Apart from its units in 18 Indian states, self-employed women in South Asia, South Africa and Latin America have also set up SEWA units.
- ❖ SEWA also runs a café Kamala, named after Kamala Chaudhary, IIM-A's first faculty member.
- ❖ Bhatt was also nominated to Rajya Sabha, was a member of the Planning Commission, and was advisor to organisations like the World Bank.
- ❖ In 2007, she joined the Elders, a group of world leaders founded by Nelson Mandela to promote human rights and peace.
- ❖ Bhatt also served as Chancellor of Gujarat Vidyapith; a university founded by Mahatma Gandhi in Ahmedabad.
- ❖ She was a recipient of the Padma Bhushan, Ramon Magsaysay Award and Indira Gandhi International Prize for Peace among many other awards.



### **Steel Man of India**



- ❖ Jamshed J Irani, popularly known as Steel Man of India is passed away.
- ❖ He was conferred the Padma Bhushan in 2007 for his contribution to the industry.
- ❖ He was appointment as an International Fellow of the Royal Academy of Engineering in 1996.

- ❖ He won Honorary Knighthood by Queen Elizabeth II in 1997 for his contributions to Indo-British Trade and cooperation.
- ❖ Irani was also the recipient of the Lifetime Achievement Award by the Government of India in 2008.

### **New President of Brazil**

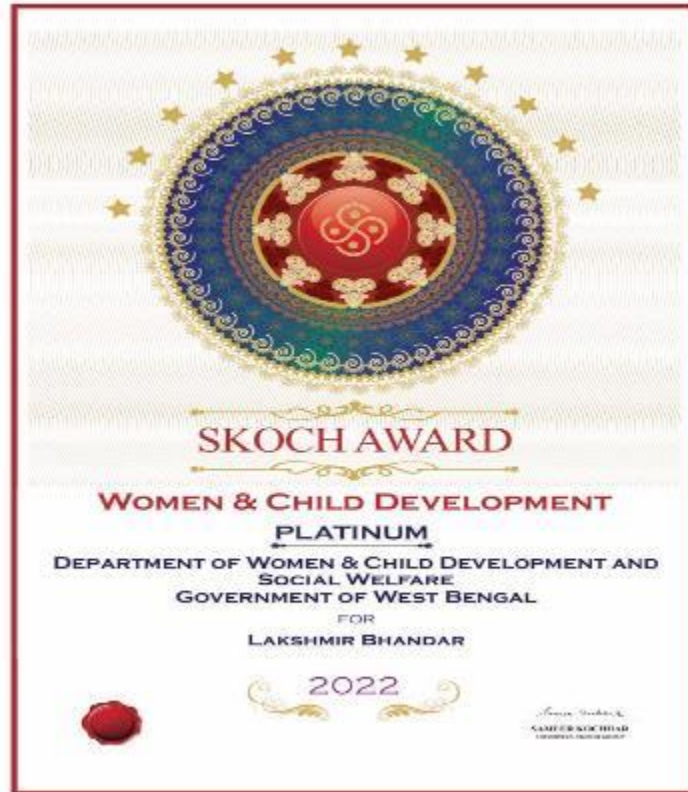
- ❖ Lula da Silva recently made a comeback as the new President of Brazil.
- ❖ He defeated incumbent far right President Jair Bolsonaro.
- ❖ He served as the President of Brazil for two terms between 2002 and 2010.
- ❖ During his previous tenures as the president, Brazil witnessed a massive economic growth and large-scale implementation of social welfare programmes that raised millions of people out of poverty.
- ❖ The most popular of these social welfare programmes is the Bolsa Familia.
- ❖ It provided cash to poor families if they send their children to schools and get them to undergo regular health check-ups.



### **SKOCH Award**

- ❖ The West Bengal government's Lakshmir Bhandar scheme has bagged the SKOCH award in the women and child development category.
- ❖ The award is a recognition for the government as well as the nearly two crore women of the state who have been empowered by the scheme.
- ❖ This scheme provides financial support to a woman head of a family in the age group of 25-60 years.





### **Kannada Rajyotsava award**

- ❖ Former chairman of ISRO, K Sivan is among the 67 winners of the Kannada Rajyotsava award this year.
- ❖ Sivan headed ISRO from January 2018 to January 2022.
- ❖ Under the leadership of K Sivan, ISRO was able to launch the first made-in-India navigation system NavIC.
- ❖ Sivan was also responsible for four successful launches of GSLV Mk II.



### **Chair of the country's Civil 20**

- ❖ Mata Amritanandamayi Devi has been appointed the Chair of the country's Civil 20 (C20).
- ❖ C20 is an official engagement group of the Group of 20 (G20).
- ❖ The G20 is the premier inter-governmental forum for the world's developed and emerging economies to address financial stability on a global basis.
- ❖ The C20 is its platform for civil society organisations (CSOs) to bring forth non-government and non-business voices to the G20 leaders.
- ❖ India will assume the Presidency of the G20 for one year from December 1, 2022 to November 30, 2023.

### **Women Inspector General (IG) Rank**

- ❖ Annie Abraham has been appointed as the IG of Rapid Action Force (RAF), while Seema Dhundia has been promoted as IG of the Bihar Sector.
- ❖ For the first time in 35 years since the first women's battalion was raised in Central Reserve Police Force.
- ❖ This is the first time that RAF will be headed by a woman IG.
- ❖ The CRPF was the first Central Armed Police Force (CAPF) to induct women in combat in 1986.
- ❖ The 15 battalion-strong RAF is deployed for anti-riots, counter-protests and sensitive law and order duties in various parts of the country.



### **First voter of Independent India**

- ❖ Shyam Saran Negi, who cast the first vote in the 1951 general election, is passed away recently.

- ❖ He exercised his right to franchise for the 34th time for the 2022 Himachal Pradesh Assembly elections.
- ❖ He voted for the first time in 1951 in the general elections of India and has voted for sixteen times in Lok Sabha Elections.



### **EK Janaki Ammal birth anniversary**

- ❖ November 4 marks the 125th birth anniversary of Edavalath Kakkat Janaki Ammal.
- ❖ She was a pioneering botanist and the first Indian woman to be awarded a PhD in the botanical sciences.
- ❖ She is known widely for her contributions to science – in the field of genetics, cytology, evolution, and more.
- ❖ She authored 'The Chromosome Atlas of Cultivated Plants' in 1945 which contained her work on many species.
- ❖ To honour her work, the Royal Horticultural Society named a variety of Magnolia blossoms after her – the Magnolia Kobus Janaki Ammal.



## **National Florence Nightingale Awards 2021**



- ❖ President Draupadi Murmu conferred the 'National Florence Nightingale Award 2021'.
- ❖ This was awarded to two nurses Shashikala Pandey and Ganga Joshi from Kumaon, Uttarakhand.
- ❖ The National Florence Nightingale Awards were instituted in the year 1973 by the Ministry of Health and Family Welfare.
- ❖ It is a recognition for meritorious services rendered by nurses and nursing professionals in society.

## **International Kannadiga Rathna award 2022**

- ❖ Yaduveer Krishnaraja Chamaraja Wadiyar has been chosen for the International Kannada Rathna award.
- ❖ He is a member of the former royal family.
- ❖ Dubai Kannadigas bestowed this award to commemorate Kannada Rajyothsava.



## TELEMEDICON 2022



- ❖ The 18th Edition of the International Telemedicine Conference held at Amrita Hospital, Kochi.
- ❖ Telemedicine Society of India and Kerala Chapter host this event.
- ❖ It aims to build platforms involving healthcare regulators, health funding authorities, service providers, and international experts.
- ❖ The core theme of the event is ‘Strengthening Health Systems Through Sustainable Telemedicine and Digital Health’.

## INCA Congress



- ❖ The 42nd International Congress of the Indian National Cartographic Association (INCA) held in Dehradun.
- ❖ It was organized by the National Hydrographic Office.
- ❖ The theme of the event is ‘Digital Cartography to Harness Blue Economy’.

### **Kuldip Nayar Patrakarita Samman Award**

- ❖ The Gandhi Peace Foundation announced the award of its prestigious Kuldip Nayar Patrakarita Samman for 2022.
- ❖ It is awarded to journalists working in Indian languages contributing to democratic values and independent media.
- ❖ This year award is bestowed to The Wire's senior editor Arfa Khanum Sherwani.
- ❖ The award honours the legacy of journalist, author and human rights activist Kuldip Nayar.
- ❖ The awardee for 2021 was the independent journalist and YouTuber - Ajit Anjum.

### **Lt Governor of Maryland**

- ❖ Aruna Miller made a history by becoming the first Indian-American politician to win the race of Lieutenant Governor in the state of Maryland, USA.
- ❖ The Lieutenant Governor is the state's highest official following the Governor.
- ❖ The Lieutenant Governor also becomes the Governor should the Governor die, resign or be removed from office.

### **Bailey K. Ashford Medal for 2022**

- ❖ Prominent Indian physician and scientist Dr Subhash Babu has been conferred the prestigious 2022 Bailey K. Ashford Medal and 2022 Fellow of the American Society of Tropical Medicine and Hygiene (ASTMH) award.
- ❖ This is awarded for his exemplary research work and contribution in tropical medicine.
- ❖ ASTMH is the world's largest scientific organization in tropical medicine.
- ❖ The medal is awarded annually to one or more mid-career-investigators for distinguished work in tropical medicine.
- ❖ In the 82-year history of the award, it has never been awarded before to an Indian scientist or for work done at an Indian institution.



## ICC Hall of Fame

- ❖ ICC has announced the latest legends who join the prestigious list of cricketing greats that make up the ICC Hall of Fame.
- ❖ West Indies Shivnarine Chanderpaul, England Women's team Charlotte Edwards and Pakistan Abdul Qadir become inductees' number 107, 108 and 109 respectively.



## Venki Ramakrishnan

- ❖ India-born Nobel laureate Professor Venki Ramakrishnan has been awarded the prestigious Order of Merit by Britain's King Charles III in recognition of his distinguished service to science.



- ❖ The UK-based molecular biologist is among the six appointments made to the historic order by the late Queen Elizabeth II before her death in September 2022.
- ❖ He was also the first to be appointed by King Charles III.
- ❖ He was born in Chidambaram in Tamil Nadu.



- ❖ He received the Nobel Prize in Chemistry in 2009 for his work on ribosomal structure and was knighted by the Queen in 2012.
- ❖ The Order of Merit was founded in 1902 by King Edward VII.
- ❖ The Order of Merit is an exclusive mark of honour conferred by the British sovereign.

### **National Sports Awards 2022**

|      |                            |               |        |
|------|----------------------------|---------------|--------|
| 2022 | Avinash Sable              | Athletics     | Male   |
| 2022 | Lakshya Sen                | Badminton     | Male   |
| 2022 | Prannoy H. S.              | Badminton     | Male   |
| 2022 | Amit Panghal               | Boxing        | Male   |
| 2022 | Nikhat Zareen              | Boxing        | Female |
| 2022 | Bhakti Kulkarni            | Chess         | Female |
| 2022 | R Praggnanandhaa           | Chess         | Male   |
| 2022 | Deep Grace Ekka            | Hockey        | Female |
| 2022 | Shushila Devi Likmabam     | Judo          | Female |
| 2022 | Sakshi Kumari              | Kabaddi       | Female |
| 2022 | Nayanmoni Saikia           | Lawn Bowl     | Female |
| 2022 | Sagar Kaikas Ovhalakar     | Mallakhamba   | Male   |
| 2022 | Elavenil Valarivan         | Shooting      | Female |
| 2022 | Om Prakash Mitharwal       | Shooting      | Male   |
| 2022 | Sreeja Akula               | Table Tennis  | Female |
| 2022 | Vikas Thakur               | Weightlifting | Male   |
| 2022 | Anshu Malik                | Wrestling     | Female |
| 2022 | Sarita Mor                 | Wrestling     | Female |
| 2022 | Praveen Kumar              | Wushu         | Male   |
| 2022 | Manasi Girishchandra Joshi | Badminton     | Female |
| 2022 | Tarun Dhillon              | Badminton     | Male   |
| 2022 | Swapnil Sanjay Patil       | Swimming      | Male   |
| 2022 | Jerlin Anika               | Badminton     | Female |

- ❖ The Youth Affairs and Sports Ministry announced these awards.
- ❖ Major Dhyan Chand Khel Ratna Award has been awarded to the Table Tennis player Achanta Sharath Kamal of Chennai.



- ❖ It is the highest award in the field of sports in the country.
- ❖ It is given for the most spectacular and outstanding performance by the sportsperson over the period of the previous four years.
- ❖ Arjuna Award is given for an outstanding performance over the period of the previous four years.
- ❖ Grandmaster R. Praggananandhaa and shooter Elavenil Valarivan from Tamilnadu are selected for Arjuna Awards.
- ❖ Dronacharya Award is given to the coaches for doing outstanding and meritorious work on a consistent basis.
- ❖ Dhyanchand Award for Lifetime Achievement is given to honour the sportspersons who have contributed to the sports through their performance.
- ❖ Rashtriya Khel Ratna Puraskar is given to corporate entities, Sports Control Boards, NGOs, including Sports bodies at the National and State level.
- ❖ Maulana Abul Kalam Azad Trophy is given to the overall Top performing University in inter-university tournaments.

### **India Agribusiness Awards 2022**

- ❖ The India International Agro Trade and Technology Fair – 2022 has been conducted to commemorate the services and support extended to the fisheries sector.
- ❖ The National Fisheries Development Board was awarded the “India Agribusiness Awards 2022” for the best Agribusiness Award.
- ❖ Haryana has been conferred with the India Agribusiness Award-2022 in the category of ‘Best State’.

### **Diamond Jubilee of Battle of Walong**



- ❖ The Indian Army is celebrating the Diamond Jubilee of the Battle of Walong,
- ❖ It also, organizes fair in continuation of Diamond jubilee celebrations of Battle of Walong in Arunachal Pradesh.
- ❖ It commemorates the bravery and sacrifice of the Indian Army while defending the Indian territory against the Chinese aggression of 1962.

### **Sir David Butler**



- ❖ Dubbed as the “father of modern election science” or psephologist, he has died at the age of 98 in London.
- ❖ Butler developed upon a long forgotten Edwardian equation called “the cube rule” for his research on elections.
- ❖ He discovered that he was able to estimate the total number of seats won from the polling numbers
- ❖ In 1955, he introduced the swingometer to the BBC’s election night broadcast,
- ❖ It went on to become a staple of election coverage all over the world.

### **Bihari Puraskar**

- ❖ Noted writers Madhu Kankariya (Hum Yahan The) and Dr Madhav Hada (Pachrang Chola Pahar Sakhi Ri) were awarded the 31st and 32nd Bihari Puraskar, respectively.
- ❖ The Bihari Puraskar is given every year for an outstanding work published in the last 10 years by a Rajasthani author in Hindi or Rajasthani.
- ❖ The Bihari Puraskar is one of the three literary awards instituted by KK Birla Foundation in 1991.

### **Satyajit Ray Lifetime Achievement Award 2022**

- ❖ Carlos Saura, Award-winning Spanish Film Director will be honoured with this award. Satyajit Ray Lifetime Achievement Award at the
- ❖ It will be given in the 53rd edition of the International Film Festival of India in Panaji, Goa.



### **2022 UNESCO-Madanjeet Singh Prize**

- ❖ It is given for the Promotion of Tolerance and Non-Violence.
- ❖ In 2022, it has been given to Franca Ma-ih Sulem Yong from Cameroon.
- ❖ The Prize was established in 1995 on the occasion of the United Nations Year for Tolerance and the 125th anniversary of the birth of Mahatma Gandhi.
- ❖ The same year UNESCO Member States adopted the Declaration of Principles on Tolerance.
- ❖ The award was funded by a donation from Madanjeet Singh – the former Indian artist, writer and diplomat who served as a UNESCO Goodwill Ambassador.

### **47th ICQCC-2022 Award**

- ❖ NTPC's QC Team from Unchahar ABHYUDAYA has won the "GOLD" award in the 47<sup>th</sup> International Convention on Quality Control Circle.
- ❖ The convention is being held from 15th-18th November in Jakarta.
- ❖ The theme of the event was "Built Back Better through Quality Efforts".



### **Gandhi Mandela award**



- ❖ The 14<sup>th</sup> Dalai Lama was conferred the Gandhi Mandela Award 2022 at Thekchen Choeling in Dharamshala.
- ❖ The Tibetan spiritual leader received the peace prize from the New Delhi-based Gandhi Mandela Foundation.
- ❖ The Tibetan spiritual leader is the recipient of the 1989 Nobel Peace Prize.

### **Kuvempu Rashtriya Puraskar**

- ❖ Tamil writer and novelist Iyayam aka V Annamalai has been selected for the Kuvempu Rashtriya Puraskar.



- ❖ His novels Koveru Kazhudaigal and Pethavan, have been translated into English and several other languages.
- ❖ The award is instituted in memory of late Kannada writer Kuvempu.

### **Indira Gandhi Prize for Peace, Disarmament and Development 2021**

- ❖ The former Vice-President Hamid Ansari presented the Indira Gandhi Prize for Peace, Disarmament and Development of 2021 to Pratham, an NGO functioning in the field of education.
- ❖ The award is in recognition of Pratham's work in ensuring quality education for children of the country, particularly during the COVID-19 pandemic.
- ❖ Pratham also used digital technology to deliver education so that the children could learn during the school closure amid the pandemic.
- ❖ The foundation's Annual Status of Education Report (ASER), serves as a model to assess education outcomes and learning deficiencies across 14 countries in three continents.
- ❖ The Indira Gandhi Prize for Peace, Disarmament and Development is given to people whose work have exemplified Indira's ideals and causes.

### **400th Birth Anniversary of Lachit Barphukan**

- ❖ The 3-day long celebrations of the 400<sup>th</sup> birth anniversary of Ahom commander Lachit Barphukan began in New Delhi.
- ❖ The exhibition also held on the life and achievement of the Ahom dynasty and Lachit Barphukan among others.
- ❖ He was an excellent military leader who knew the Brahmaputra valley's geography and the nearby hills like the back of his hand.
- ❖ He was also given administrative, judicial, and military duties as one of the five Borphukans of the Ahom kingdom by king Charadhwaj Singha.
- ❖ He is remembered for his foresight and outstanding leadership in the 1671 Battle of Saraighat.

### **Indian Film Personality of the Year 2022**

- ❖ Telugu superstar Chiranjeevi was honoured with the Indian Film Personality of the Year 2022 award.
- ❖ This is awarded at the opening ceremony of the 53rd International Film Festival of India (IFFI), held in Goa.

- ❖ In 2006, he was honoured with the Padma Bhushan, India's third-highest civilian award.



### 2022 JCB Prize for Literature



- ❖ Author Khalid Jawed's "The Paradise of Food", translated by Baran Farooqi from Urdu, won the fifth JCB Prize for Literature.
- ❖ The book was originally published as "Ne'mat Khana" in 2014.
- ❖ It is the fourth translation to win the award and the first work in Urdu.

### **Sumitra Charat Ram Award**

- ❖ Kathak veteran Uma Sharma received the Sumitra Charat Ram Award.
- ❖ This is recognition for her contribution to the field of Indian classical music and dance.
- ❖ She is a renowned classical dancer and she has been awarded Padma Bhushan for her unique contribution to the cultural tradition of India.
- ❖ This award was instituted in 2010.
- ❖ It commemorates the contribution of art impresario and founder of SBKK Sumitra Charat Ram as a cultural revivalist in Post-Independent India.



### **Champions of the Earth Award 2022**

- ❖ Indian wildlife biologist Dr Purnima Devi Barman is among the honourees of this year's Champions of the Earth award.
- ❖ This is the U.N.'s highest environmental honour.
- ❖ This is conferred for their transformative action to prevent, halt and reverse ecosystem degradation.
- ❖ She had to change perceptions of the bird, known locally as "hargila" in Assamese (meaning "bone swallower") and mobilised a group of village women to help her.

- ❖ Today the “Hargila Army” consists of over 10,000 women to protect nesting sites, rehabilitate injured storks.



### **Largest South Asian film market**

- ❖ The Union Minister for Information and Broadcasting Anurag Thakur inaugurated the largest South Asian Film Market - Film Bazaar.
- ❖ It encourages creative and financial collaboration between the South Asian and International Film Communities.
- ❖ It is created and organized by the National Film Development Corporation.
- ❖ It also facilitates the sales of world cinema in the South Asian Region.

### **Tenzing Norgay National Adventure Awards 2021**

- ❖ The Ministry of Youth Affairs and Sports announced the National Adventure Award called “Tenzing Norgay Adventure Award” (TNNAA) for the year 2021.
- ❖ The award is given in four categories viz. Land Adventure, Water Adventure, Air Adventure, and Life Time Achievement.
- ❖ These Awards are given annually to praise the achievement of persons in the fields of adventure.
- ❖ The award encourages people to develop the spirit of endurance, risk-taking, cooperative teamwork, and quick reflexes.

| Category                    | Name                                      |
|-----------------------------|---|
| <b>Land Adventure</b>       | Ms. Naina Dhakad                          |
| <b>Water Adventure</b>      | Shri Shubham Dhananjay Vanmali            |
| <b>Lifetime Achievement</b> | Group Captain Kunwar Bhawani Singh Samyal |



### **Areez Pirojshaw Khambatta**

- ❖ The founding chairman of the popular drink Rasna, Areez Pirojshaw Khambatta has passed away.
- ❖ He created affordable soft drink packs of Rasna in the 1970s as an alternative to soft drink products sold at high costs.
- ❖ He was the former chairman of the World Alliance of Parsi Irani Zarthostis (WAPIZ).

### **Dog on anti-poacher duty**



- ❖ Zorba, India's first dog to be deployed for tracking down poachers, has died recently.
- ❖ The 12-year-old male Belgian Malinois was a member of 'K9', the nation's first dog squad to fight wildlife crime.
- ❖ Zorba was the first dog of the squad and he was credited with helping law enforcement authorities nab over 60 poachers.
- ❖ The K9 squad was comprising six Belgian Malinois dogs and their handlers.

### **UNESCO Asia-Pacific Awards**

- ❖ The restoration of the Chhatrapati Shivaji Maharaj Vastu Sangrahalaya Museum in India, has received the Award of Excellence in UNESCO Asia-Pacific Awards 2022 for Cultural Heritage Conservation.
- ❖ The UNESCO Asia-Pacific Awards for Cultural Heritage Conservation programme is awarded every year since 2000.

- ❖ It has been recognizing the efforts of private individuals and organizations in restoring, conserving, and transforming structures and buildings of heritage value in the region.
- ❖ In 2022, 13 projects from 6 countries have been acknowledged for awards, including 4 from India.
- ❖ The other three winners are
  - Stepwells of Golconda Fort, Hyderabad - Award of Distinction
  - Domakonda Fort, Telangana - Award of Merit
  - Byculla Station, Mumbai - Award of Merit
- ❖ Topdara Stupa, Charikar, Afghanistan, and Nantian Buddhist Temple, Fujian, China, have also received the 'Award of Merit'.

## **EXCELL Awards 2022**



- ❖ India is the only country to have received the Leadership in Family Planning (EXCELL) Awards-2022.
- ❖ India won the award in the 'country category' at the International Conference on Family Planning.
- ❖ The award is a recognition of India's efforts towards ensuring access to quality family planning choices based on right information & reliable services.
- ❖ India has made outstanding progress not only in improving access but also adoption of modern contraceptive methods enabling couples to make informed choices about family planning.

## SPORTS

### **FIFA U-17 Women's World Cup 2022**

- ❖ Spain, defending champions, again won the FIFA U-17 Women's Football World Cup against Colombia.
- ❖ For the first-time Colombia arrived to final match.
- ❖ FIFA U-17 Women's World Cup is an international association football tournament for women under the age of 17.
- ❖ The host country of the FIFA U-17 Women's World Cup 2022 was India.

### **U-23 World Wrestling Championships**

- ❖ India's Greco-Roman wrestler Sajan Bhanwala won a historic Bronze in the 77kg division.
- ❖ This is the India's first Greco-Roman medal in U-23 Wrestling World Championship, held at Pontevedra, Spain.
- ❖ Bajrang Punia and Ravi Kumar Dahiya take home the silver.
- ❖ India placed sixth overall in the U-23 World Wrestling Championships 2022 with six gold, silver, and bronze medals.



### **Equal pay for men and women players**

- ❖ In a landmark move, the Board of Control for Cricket in India (BCCI) announced that it will be implementing a new pay equity policy for its contracted women cricketers.
- ❖ Thus, it is effectively paying men and women cricketers the same match fees.


- ❖ In cricket, apart from the match-wise fees, there is a retainership payment system.
- ❖ The first country to do so was New Zealand in July 2022.
- ❖ Similarly, the Committee of Administrators of the Table Tennis Federation of India, said in May 2022 that it would offer equal prize money for men and women in all the national zonal tournaments.

| Format | Old pay   | Revised* |
|--------|-----------|----------|
| Test   | ₹2.5 lakh | ₹15 lakh |
| ODI    | ₹1 lakh   | ₹6 lakh  |
| T20I   | ₹1 lakh   | ₹3 lakh  |

\*REVISED PAY STRUCTURE FOR CENTRALLY CONTRACTED WOMEN PLAYERS

**RETAINERSHIP: MALE VS FEMALE PLAYERS**

- There is a big difference in the annual retainer fee for male and female cricketers
- Male players' categories: Grade A+ (₹7 cr annually), Grade A (₹5 cr), Grade B (₹3 cr) and Grade C (₹1 cr)
- Female players' categories: Grade A (₹50 lakh), Grade B (₹30 lakh), Grade C (₹10 lakh)



### French Open 2022

- ❖ India's Satwiksairaj Rankireddy and Chirag Shetty clinched the French Open Super 2022 badminton tournament men's doubles title.
- ❖ Satwik and Chirag's also won their first-ever super 750 and second BWF World Tour title this year.



## New national records



- ❖ Akanksha Vyavahare, has created three new national records in the 40kg weight category at the Khelo India National Ranking Women's Weightlifting Tournament.
- ❖ Akanksha has improved her existing snatch national record by lifting 60kg.
- ❖ She recorded 71 kg in the clean jerk and
- ❖ The process registered a total lift of 131 kg.

## Squash team's gold medal

- ❖ The Indian men's team clinched its first-ever gold at the Asian Squash Team Championships.
- ❖ It is the biggest win of Indian Men's Team since they won 2014 Asian Games Gold.
- ❖ The Indian men's team has won three silver medals in the Asian Team Squash Championships and seven bronze medals.



### **Hat-trick fifties**

- ❖ Virat Kohli has hit the form and is scoring fifties in the ongoing ICC T20 World Cup.
- ❖ Kohli is the first player in the history of the T20 World Cup to score 3 or more fifty-plus knocks on three occasions (2014, 2016, 2022).

### **World's No.1 T20I batter**



- ❖ Surya Kumar Yadav became the world's number one batter in T20 Internationals.
- ❖ Yadav overtook Pakistan opener Mohammad Rizwan to become just the second Indian player to hold the top T20I batter ranking.
- ❖ New Zealand's Devon Conway secured the third place.

### **BWF Para Badminton World Championships**

- ❖ Pramod Bhagat and Manisha Ramadass emerged champions from India at the BWF Para Badminton World Championships.
- ❖ The pair of Bhagat and Manoj Sarkar won the silver medal in the men's doubles event.
- ❖ India finished with a total of 16 medals.
- ❖ Bhagat now has 11 medals, including six gold, two silver and three bronze medals in the world championships.

|    |   |           |     |     |      |      |
|----|---|-----------|-----|-----|------|------|
| 1  |  | INDONESIA | 6   | 2   | 3    | 11   |
| 2  |  | JAPAN     | 3   | 2   | 5    | 10   |
| 3  |  | KOREA     | 2.5 | 2   | 5    | 9.5  |
| 4  |  | PERU      | 2   | 2.5 | 0    | 4.5  |
| 5  |  | INDIA     | 2   | 2   | 11.5 | 15.5 |
| 6  |  | MALAYSIA  | 1   | 2   | 1    | 4    |
| 7  |  | FRANCE    | 1   | 1   | 4    | 6    |
| 8  |  | GERMANY   | 1   | 0   | 1    | 2    |
|    |  | HONG KONG | 1   | 0   | 1    | 2    |
| 10 |  | NORWAY    | 1   | 0   | 0    | 1    |
|    |  | UKRAINE   | 1   | 0   | 0    | 1    |

### T20 World Cup 2022 winner

- ❖ England defeated Pakistan to win the T20I world Cup 2022 held at Australia.
- ❖ England won the T20 World Cup title for the second time.
- ❖ England's Sam Curran was named the Player of the Match as well as the Player of the Tournament.
- ❖ England become the first country to hold both global white-ball trophies (50 and 20).
- ❖ They won the 50-over World Cup on home soil in 2019.
- ❖ England also becomes only the second team to lift two titles in the T20 World Cup after West Indies.
- ❖ Tournament's leading run-getters Virat Kohli and Surya Kumar Yadav were named in the 'Most Valuable Team' of the ICC T20 World Cup.

### Women's World Boxing Championships in 2023



- ❖ India has been named as the host country for the 2023 IBA Women's World Boxing Championship.
- ❖ India has hosted three major championships in seven years showcasing the country's ability to build infrastructure and capabilities.
- ❖ It will be the third Women's World Boxing Championship to be hosted by India and the second one within six years.

### **Women's World Boxing Championship 2023**

- ❖ India will host the Women's World Boxing Championships in 2023 at Jawaharlal Nehru Stadium in New Delhi.
- ❖ It is the biennial amateur boxing competition organized by the International Boxing Association (IBA).
- ❖ Notably, India has never conducted the men's world championship.
- ❖ But it will be the third time that the elite women's competition will be held in India.
- ❖ The Women championship was held in 2006 and 2018 in New Delhi.

### **IBSA Blind Football Women's Asian/Oceania Championship 2022**



- ❖ Kerala Governor Arif Muhammad Khan inaugurated this cup at Kochi, Kerala.
- ❖ It will be India's biggest para football event.
- ❖ Ten teams are participating in the event including India, China, Thailand, Malaysia, Kazakhstan, South Korea, Japan, Iran, Australia, and Uzbekistan.
- ❖ This is the first time in India that a para football event will have 10 men's teams and 2 women's teams.



## Kabaddi World Cup 2025



- ❖ It will be held in the West Midlands region of the United Kingdom.
- ❖ It will be hosted out of Asia for the first time.
- ❖ It was announced by the World Kabaddi Federation (WKF).

## IOA Athletes Commission member

- ❖ Olympic medallists MC Mary Kom, PV Sindhu, Mirabai Chanu and Gagan Narang were among 10 eminent sportspersons elected as members of the Indian Olympic Association (IOA) Athletes Commission.
- ❖ Olympic Medallist Mary Kom was unanimously elected as the Chairperson of this commission.



- ❖ While the Table Tennis legend Achanta Sharath Kamal was elected as the Vice-Chairperson of the body.
- ❖ Under the new constitution of the Indian Olympic Association, the athletes commission is to have equal representation of male and female members.

- ❖ The immediate task of the Athletes Commission would be to identify eight Sportspersons of Outstanding Merit (SOM) who would then be voting members of the IOA's General Assembly.
- ❖ The Indian Olympic Association is the body responsible for selecting the athletes to represent India at the Olympic Games, Asian Games, and other international athletic games.

## Next Cricket World Cups

| ICC'S PROPOSED TOURNAMENTS  |  |
|---|--|
| 2023-2031 BROADCAST RIGHTS CYCLE*   |  |
| <b>2023</b><br>Women's ODI Champions Cup<br>(6 TEAMS, 16 MATCHES)   | <b>2028</b><br>Men's T20 Champions Cup<br>(10 TEAMS, 48 MATCHES)<br>Women's T20 Champions Cup<br>(6 TEAMS, 16 MATCHES)   |
| <b>2024</b><br>Men's T20 Champions Cup<br>(10 TEAMS, 48 MATCHES)<br>Women's T20 Champions Cup<br>(6 TEAMS, 16 MATCHES)  | <b>2029</b><br>World Test Championship final<br>(2 TEAMS, 1 MATCH)<br>Men's ODI Champions Cup<br>(6 TEAMS, 16 MATCHES)<br>Women's ODI World Cup<br>(8 TEAMS, 31 MATCHES) |
| <b>2025</b><br>World Test Championship final<br>(2 TEAMS, 1 MATCH)<br>Men's ODI Champions Cup<br>(6 TEAMS, 16 MATCHES)<br>Women's ODI World Cup<br>(8 TEAMS, 31 MATCHES)  | <b>2030</b><br>Men's T20 World Cup<br>(20 TEAMS, 55 MATCHES)<br>Women's T20 World Cup<br>(10 TEAMS, 23 MATCHES)  |
| <b>2026</b><br>Men's T20 World Cup<br>(20 TEAMS, 55 MATCHES)<br>Women's T20 World Cup<br>(10 TEAMS, 23 MATCHES)   | <b>2031</b><br>World Test Championship final<br>(2 TEAMS, 1 MATCH)<br>Men's ODI World Cup<br>(10 TEAMS, 48 MATCHES)  |
| <b>2027</b><br>World Test Championship final<br>(2 TEAMS, 1 MATCH)<br>Men's ODI World Cup<br>(10 TEAMS, 48 MATCHES)<br>Women's ODI Champions Cup<br>(6 TEAMS, 16 MATCHES) | * 2023 Men's ODI World Cup part of ongoing broadcast rights cycle  |

- ❖ International Cricket Council (ICC) has announced the venue for Under-19 Men's and Women's T-20 World cup.
- ❖ 2024 Under -19 men's T-20 World Cup will be hosted by Sri Lanka.
- ❖ The 2026 edition will be staged in Zimbabwe and Namibia.
- ❖ The 2025 Under -19 women's T20 World Cup will be held in Malaysia and Thailand.
- ❖ And 2027 Under -19 women's event will be jointly hosted by Bangladesh and Nepal.



### **2nd edition of the North East Olympics games**

- ❖ It was held in Shillong, Meghalaya.
- ❖ Manipur emerged as the overall team champion in this.
- ❖ Assam took the second spot while Arunachal Pradesh got the third spot.
- ❖ Nagaland will host the next edition of the Northeast Olympic Games.

### **Paris Olympics 2024**

- ❖ The Phrygian cap was unveiled as the mascot for the 2024 Paris Olympics.
- ❖ It is the symbol of the French republic but wearing sneakers as a nod to the present.
- ❖ The Olympic Phryge is a bit smaller.
- ❖ The Paralympic Phryge is a bit slimmer
- ❖ It has a blade on his right leg because it is a Phryge with an impairment.
- ❖ The Paralympic mascot is different in that one of the legs is a runner's blade.
- ❖ While Phryges are part of a large family, the main heroes of Paris 2024 will be Olympic Phryge and Paralympic Phryge.

### **22nd FIFA World Cup 2022**

- ❖ The 22nd FIFA men's world cup will be held in Qatar from 20 November to 18 December 2022.
- ❖ It is the first World Cup to be organised in the Arab world.
- ❖ It is the first to be held in winter and the second one in Asia after the 2002 edition jointly hosted by South Korea and Japan.
- ❖ This edition is also one of the most expensive World Cups as Qatar had to build all stadiums from scratch.
- ❖ The total cost of hosting the World Cup is reportedly around \$220 billion.
- ❖ It is the biggest amount splurged by any of the organisers for the FIFA World Cup.
- ❖ The Qatar 2022 World Cup will introduce new rules and new technology.
- ❖ The five-substitution rule will be introduced in this World Cup.
- ❖ The 'semi-automated offside technology' used this series.
- ❖ This will help detect whether the ball has crossed the goal line.



## Highest ever List A score

**277** Jagadeesan's score is the highest List-A score. The previous record was held by Sri Lanka's Siripali Weerakody when she scored an unbeaten 271 in 2007. In men's section, England batter Alistair Brown's 268 was the previous best.

**416** The opening stand of 416 between Sai Sudhakar and N. Jagadeesan on Monday is the highest for any wicket in any List-A game.

**506/2** Tamil Nadu's total against Arunachal is the highest team total in List-A cricket, breaking England's 498/4 against Netherlands earlier this year.

**5** Jagadeesan became the first ever player to score five consecutive List-A tons.

**10** The TN wicketkeeper-batter became the 10th Indian to score a List-A double hundred.

**435** The victory margin of Tamil Nadu is the biggest ever in List-A cricket, as Arunachal Pradesh were dismissed for 21 runs.

**RECORDS GALORE**

It was a day where Jagadeesan and Tamil Nadu broke several records in a Vijay Hazare clash against Arunachal Pradesh at M Chinnaswamy Stadium. A look...

- ❖ Tamil Nadu batter Narayan Jagadeesan broke the world record for the highest individual score in men's List A cricket by hammering 277 off 141 balls.
- ❖ This is scored against Arunachal Pradesh in the Vijay Hazare Trophy in Bangalore.
- ❖ Tamil Nadu became the first team to breach the 500- mark in List A cricket before winning the Group C match by 435 runs.
- ❖ The previous record was Somerset's 346-run win over Devon in 1990.
- ❖ Jagadeesan became the first-ever player to score five consecutive centuries in men's List A cricket.
- ❖ He also went past Alistair Brown and Rohit Sharma to set a new record for the highest individual score.

## IMPORTANT DAYS

### Vigilance Awareness Week

- ❖ The Vigilance Awareness Week is being observed from 31st October to 6th November, 2022.
- ❖ Theme for the year is “Corruption free India for a developed Nation”.



### World Vegan Day - November 01

- ❖ It aims to encourage people to follow the vegan lifestyle and spread awareness about veganism.
- ❖ The World Vegan Day originated in England in 1994.
- ❖ Animal rights activist Louise Wallis established the day to celebrate the 50th anniversary of the Vegan Society.

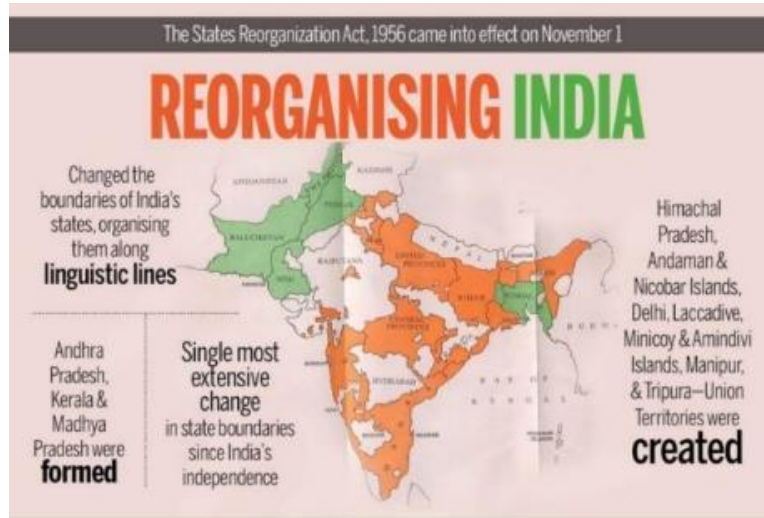
### 7th India water week – 01 to 05 November

- ❖ The President of India, inaugurated the 7th India Water Week at the India Expo Centre in Greater Noida, Uttar Pradesh.
- ❖ Theme of the observation is “Water Security For Sustainable Development And Equity”.

### State formation day – 01 November

- ❖ In India, seven states and two union territories are celebrating Foundation Day on November 1, 2022.
- ❖ They are, Andhra Pradesh, Haryana, Chhattisgarh, Kerala, Karnataka, Punjab & Madhya Pradesh, Lakshadweep & Puducherry.
- ❖ Earlier, Tamil Nadu also used to celebrate its foundation day on November 1.
- ❖ Now the Formation Day in Tamilnadu will be celebrated on July 18.

- ❖ In Karnataka, this day is celebrated as “Rajyotsav”.



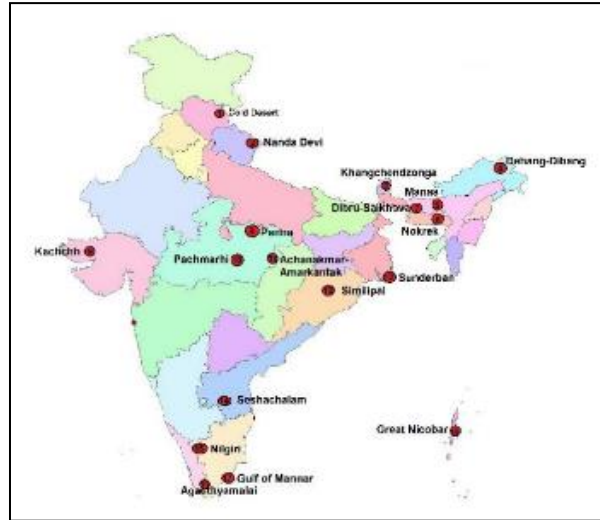
## **International Day to End Impunity for Crimes against Journalists – 02 November**

- ❖ The day came into existence when the United Nations General Assembly (UNGA) passed a resolution in December 2013.
- ❖ The day draws attention to impunity, i.e., culprits going unpunished, to crimes against journalists.
- ❖ The date was chosen to commemorate the assassination of two journalists in Mali on November 2, 2013.
- ❖ According to UNESCO’s observatory of killed journalists, between 2006 and 2020, over 1,200 journalists were killed for doing their job.
- ❖ In 90% of these cases, the killers went unpunished.

## **International Day for Biosphere Reserves - 03 November**

- ❖ November 03, 2022, was observed as the first International Day for Biosphere Reserves.
- ❖ It was proclaimed by the UNESCO General Conference in its 41st session in 2021.
- ❖ This is also marking the end of the two years celebration of the 50th anniversary of the Man and the Biosphere (MAB) Programme.
- ❖ The MAB programme is an intergovernmental scientific programme launched in 1971 by UNESCO.
- ❖ It aims to establish a scientific basis for enhancing the relationship between people and their environments.

- ❖ The World Network of Biosphere Reserves currently counts 738 sites in 134 countries all over the world, including 22 transboundary sites.
- ❖ 12 of the 18 biosphere reserves in India have become part of the World Network of Biosphere Reserves.
- ❖ Sri Lanka has 04 and Maldives has 03 biospheres.



### **International Open Access Week - 2022**

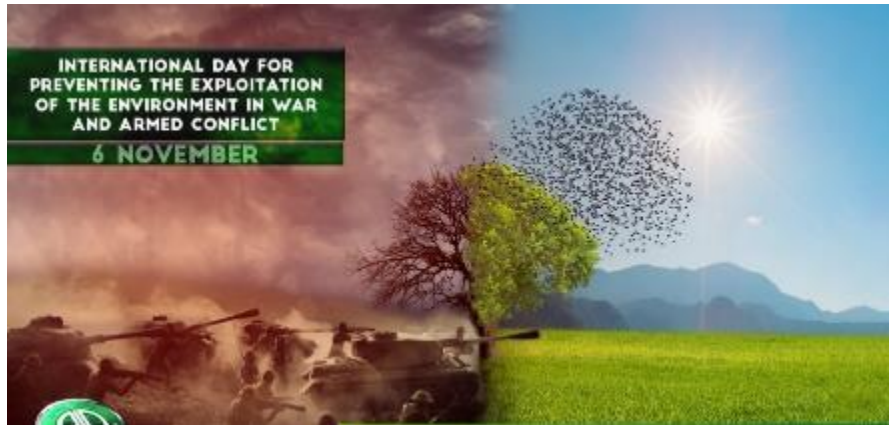
- ❖ It aims to create awareness about open-access scholarly publishing among researchers and publishers by CSIR-NIScPR.
- ❖ It is celebrated globally during the last full week of October.
- ❖ In the year 2022, the International Open Access Week, entered in its fifteenth year of celebration.
- ❖ It is organized by Scheme for Promotion of Academic and Research Collaboration (SPARC) in partnership with the Open Access Week Advisory Committee.

### **World Tsunami awareness Day - November 05**

- ❖ It aims to raise tsunami awareness and share innovative approaches to risk reduction.
- ❖ It was first officially observed on 5 November 2016 after the announcement of the UN General assembly on 22 December 2015.
- ❖ This date was chosen to mark the story of “Inamura-no-hi” (burning of the rice sheaves) in western Japan.
- ❖ The theme in Asia-Pacific is Early Warning and Early Action Before Every Tsunami.

## **International Day for Preventing the Exploitation of the Environment in War and Armed Conflict - November 06**

- ❖ This day was established to protect the environment as a source of security and peace and to prevent its use in military conflicts.
- ❖ The goal of the day is to raise awareness about the environmental consequences of war and conflict.
- ❖ On 5 November 2001, the UN General Assembly declared this day.



## **National Cancer Awareness Day - November 07**



- ❖ Cancer is the second most deadly disease that causes death among people.



- ❖ According to WHO statistics, low- and middle-income nations account for about 70% of cancer-related fatalities
- ❖ The National Cancer Control Program, which was established in 1975, aims to facilitate access to cancer treatment across the country.
- ❖ The date was chosen to commemorate birth anniversary of Marie Curie, who born on November 7, 1867, in Warsaw, Poland.
- ❖ She was responsible for the discovery of radium and polonium.
- ❖ It helped to create radiotherapy, the most significant advancement in the fight against cancer.

### **Infant Protection Day - November 07**

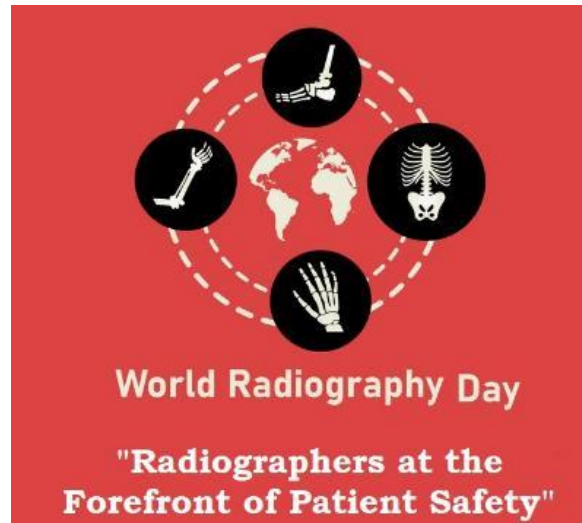


- ❖ This day is celebrated to spread awareness about the measures to be taken to save the lives of infants and provide sufficient protection and care.
- ❖ The infant mortality rate in India in 2022 is 27.695 deaths per 1000 live births.
- ❖ This data shows that there is a 3.74 percent decline as compared to the previous year.

### **World Radiography Day - November 08**

- ❖ This day observed to honour the discovery of X-radiation, also known as X-rays.
- ❖ On this day in 1895 German scientist Wilhelm Conrad Rontgen's discovered X-rays.
- ❖ For this discovery, he was awarded the first Nobel Prize in Physics in 1901.

- ❖ Radiology is the medical discipline that uses medical imaging to diagnose and treat diseases within the bodies of animals and humans.
- ❖ The first World Radiography Day was observed in 2007 by the International Society of Radiographers and Radiological Technologists.
- ❖ Theme of 2022 is “Radiographers at the Forefront of Patient Safety.”



### **World Town Planning Day - November 08**

- ❖ This day was set aside to commemorate the important role planning and structuring play in the creation of our communities.
- ❖ This day was founded in 1949 by late professor Carlos Maria della Paolera.
- ❖ This day also goes by the name “World Urbanism Day.”
- ❖ This day is organised by the International Society of City and Regional Planners (ISOCARP).

### **National Legal Service Day - November 09**

- ❖ This day commemorates the beginning of the Legal Services Authorities Act-1987.
- ❖ The Legal Services Authorities Act, of 1987 was enacted on October 11, 1987.
- ❖ It came into effect on November 9, 1995.
- ❖ The Supreme Court of India established National Legal Services Day in 1995
- ❖ This day aims to educate the public about the various sections of the Legal Services Authorities Act.
- ❖ Additionally, it serves as a reminder of the petitioners' rights.

- ❖ National Legal Services Authority (NALSA) was constituted under the Legal Services Authorities Act, 1987.
- ❖ The Chief Justice of India is the Patron-in-Chief.

### **Uttarakhand Day - November 09**

- ❖ This day is celebrated as the state foundation day of state Uttarakhand.
- ❖ In 1994, the demand for a separate state took full form.
- ❖ It was resulted in the formation of the state of Uttarakhand in 9 November 2000.
- ❖ It was done by the Uttar Pradesh Reorganisation Act-2000,
- ❖ It is known as the "Land of gods" or "Dev Bhoomi".
- ❖ At the time of its establishment, it was named 'Uttaranchal'.
- ❖ It was later renamed Uttarakhand in 2007.



### **International Week of Science and Peace 2022 – November 09 to 14**

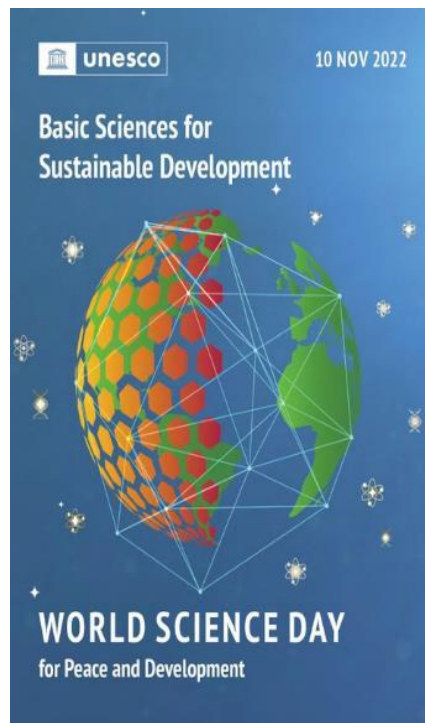
- ❖ This particular week is intended to motivate individuals to promote world peace and better technology for development.
- ❖ The Week highlights the significance of science in today's society and the need to educate more people about the current scientific challenges.
- ❖ This was first observed during 1986 as part of the observance of the International Year of Peace.



### **World Immunity Day - November 10**

- ❖ It aims to spread the incredible health benefits of getting vaccinated and how it can prevent many diseases and disorders.
- ❖ Immunization is the process whereby a person is made immune or resistant to an infectious disease, typically by the administration of a vaccine.
- ❖ The theme for World Immunization Day 2022 is "Long Life For All".
- ❖ To achieve full immunization coverage for all children, the Government of India launched Mission Indradhanush in December 2014.

### **World Science Day for Peace and Development - November 10**



- ❖ It was proclaimed by the UN Educational, Scientific and UNESCO in 2001.
- ❖ In 1999, UNESCO and the International Council for Science organized the first-ever World Scientific Conference in Budapest.
- ❖ November 10, 2002 marked the first World Science Day for Peace and Development
- ❖ Theme of the observation is 2022 is 'Basic Sciences for Sustainable Development'.

### **World Public Transport Day - November 10**

- ❖ It aims to raise awareness of the negative environmental effects of increasing traffic density and to motivate people to use public transportation and conserve fuel.
- ❖ Transportation accounts for one-fifth of global greenhouse gas emissions.



### **World Quality Day – November 10**

- ❖ It is marked on the second Thursday of November (November 10 this year).
- ❖ The Chartered Quality Institute (CQI), a business entity with offices in London, established World Quality Day in 1919.
- ❖ World Quality Week was also observed between November 7 to 11
- ❖ "Quality conscience: Doing the right thing" is the theme for this year.

### **World Pneumonia Day – November 12**

- ❖ This year's theme is based on the Worldwide Pneumonia Awareness Campaign – "Pneumolight 2022".



- ❖ The slogan for this year is “Pneumonia Affects Everyone”.
- ❖ It is a global event observed every year on 12 November to spread awareness and educate people to combat Pneumonia disease.
- ❖ It is a world’s biggest infectious killer of adults and children, responsible for the majority of death of children below five around the world.

### **World Kindness Day – November 13**

- ❖ It was introduced in 1998 by the World Kindness Movement, a coalition of nations' kindness NGOs.
- ❖ This year’s theme is ‘Be kind whenever possible.’

### **World Diabetes Day – November 14**

- ❖ The theme of this Day between the years 2021 and 2023 is “Access to Diabetes Care”.
- ❖ It was first observed in the year 1991 by the declaration of the International Diabetes Federation (IDF) and the World Health Organisation (WHO).
- ❖ November 14 was picked because it was the birth anniversary of Frederick Banting, who, along with Charles Best, discovered insulin.
- ❖ And in 1991, the day marked his 100th birthday anniversary.

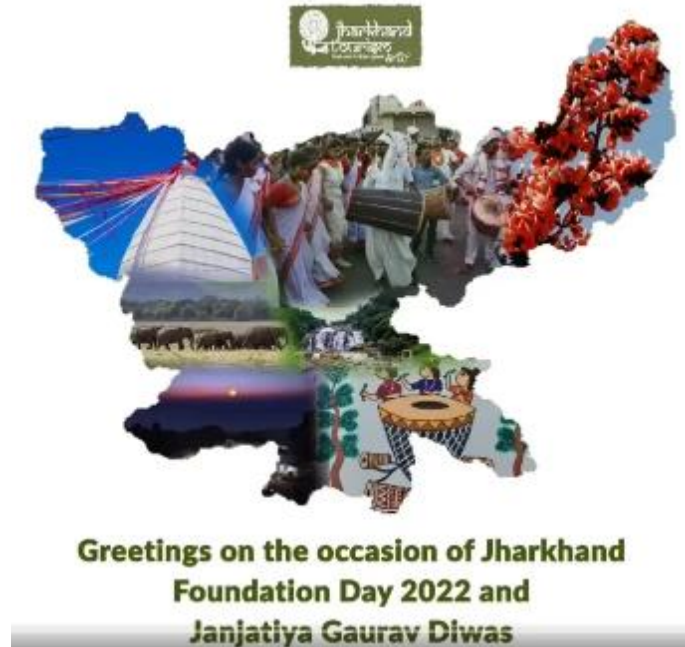
### **Children’s Day – November 14**

- ❖ It is celebrated to commemorate the birth anniversary of the first Prime Minister of India Pandit Jawaharlal Nehru.
- ❖ This year marks the 133rd birth anniversary of Pandit Nehru who was born in 1889 in Allahabad, India.
- ❖ Earlier, Children’s Day was celebrated in India on November 20, the day World Children’s Day is celebrated by the United Nations.
- ❖ However, after the death of Jawaharlal Nehru (1964), a resolution was passed in the Indian Parliament to mark his birthday as Children’s Day.

### **Jharkhand Foundation Day – November 15**

- ❖ It was founded by the Bihar Reorganisation Act on 15 November 2000 as the 28th State of India.
- ❖ 15 November is also observed as the birth anniversary of the legendary Bhagwan Birsa Munda.

- ❖ Jharkhand is also known as 'The land of the forest' or 'Bushland'.
- ❖ It is the only state in India that produces uranium, coking coal and pyrite.
- ❖ It now has the forests of Chhotanagpur plateau and Santhal Pargana.



### **Janjatiya Gaurav Diwas 2022**

- ❖ November 15 is celebrated as Janjatiya Gaurav Diwas or Tribal Pride Day to honour tribal freedom fighter, Birsa Munda.
- ❖ November 15 is marking the birth anniversary of Birsa Munda.
- ❖ Prime Minister Narendra Modi dedicated a museum in Ranchi in memory of Birsa Munda also known as Dharti Aaba.

### **National Press Day – November 16**

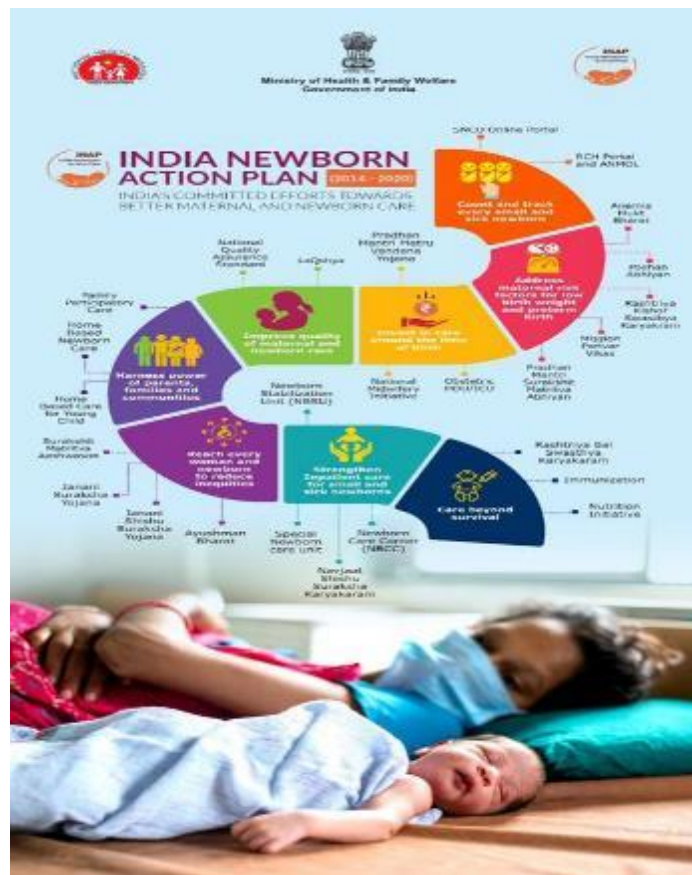
- ❖ The Press Council of India celebrated the National Press Day of 2022 on the theme “The Media’s Role in Nation Building”.
- ❖ It aims to acknowledge and honour the Press Council of India (PCI).
- ❖ In 1966 on 16th November, the PCI was formed.
- ❖ The council is traditionally chaired by a retired Supreme Court Judge (Justice Ranjana Prakash Desai).
- ❖ The Press Council of India also examines the quality of reportage of the Indian press and keeps a check on journalistic activities.

- ❖ In the year 1956, the First Press Commission decided to form a body with statutory authority which has the responsibility of maintaining the ethics of journalism.
- ❖ The Press Council of India is the only body to exercise an authority over the instruments of the State to safeguard the independence of the press.

### International Day for Tolerance – November 16

- ❖ It aims to build tolerance among diverse cultures and spread the message that tolerance is an integral part of society.
- ❖ In 1995, the UN paid tribute to Mahatma Gandhi on his 125th birth anniversary by kickstarting the commemoration of International Tolerance Day.
- ❖ The UNESCO created a prize for the promotion of tolerance and non-violence named the UNESCO-Madanjeet Singh Prize.

### National Newborn Week – November 15 to 21



- ❖ This week aims to reinforce the importance of neonatal health as a priority area of the health sector.

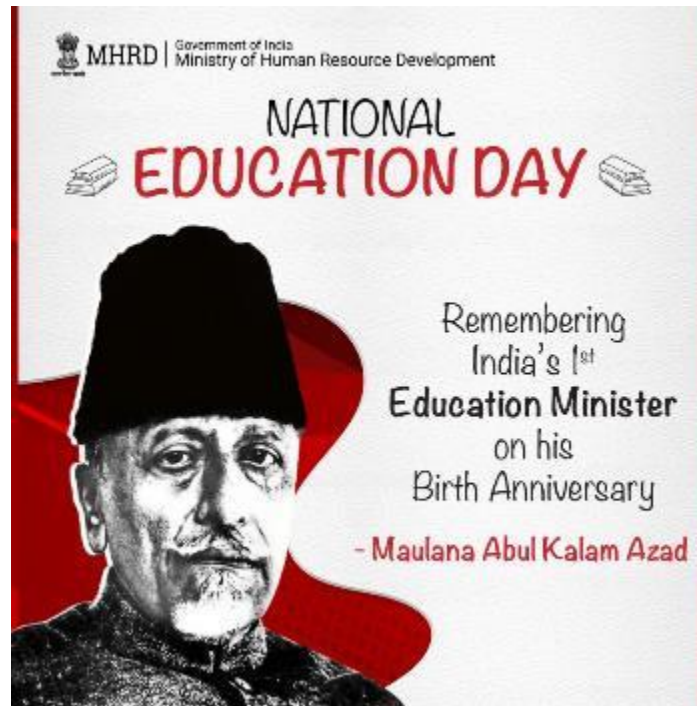


- ❖ It aims to reduce infant mortality by improving health care conditions for infants in the neonatal period.
- ❖ The theme of this week is ‘Safety, Quality and Nurturing Care – Every Newborn’s Birth Right’.
- ❖ India Newborn Action Plan (INAP) was launched in September 2014.
- ❖ It aims for accelerating the reduction of preventable newborn deaths and stillbirths in the country – with the goal of attaining ‘Single Digit Neo-Natal Mortality Rate (NMR) by 2030’ and ‘Single Digit Still Birth Rate (SBR) by 2030’.

### **World Usability Day – November 10**

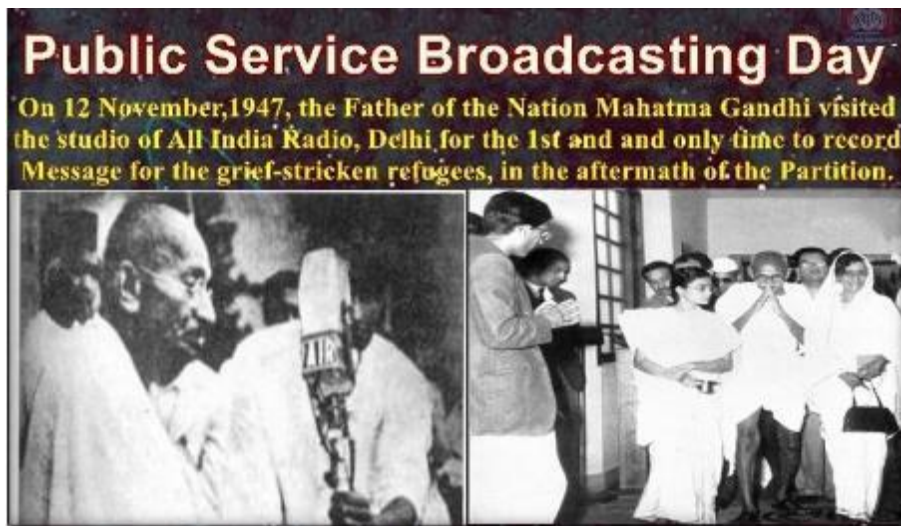
- ❖ Every year on the second Thursday of November, the world observes World Usability Day.
- ❖ The goal of this day is to bring together various communities that can work together to make the world a better place to live.
- ❖ This day also focuses on the responsibility of every user to demand better quality products.
- ❖ The theme of World Usability Day 2022 is “Our Health”.

### **National Education Day – November 11**



- ❖ This Day is celebrated every year on November 11 to mark the birth anniversary of the first Minister of Education in India, Maulana Abul Kalam Azad.
- ❖ The theme of 2022 is ‘Changing Course, Transforming Education.’
- ❖ He was a scholar, educationist and freedom fighter who played an instrumental role in the development of the education system of independent India.
- ❖ He was posthumously awarded India’s highest civilian award Bharat Ratna in 1992.
- ❖ He was the visionary behind the establishment of the IITs, IISc and the School of Architecture and Planning.
- ❖ The first National Education Day celebration was inaugurated by then President Pratibha Patil on November 11, 2008.

### **Public Service Broadcasting Day – November 12**

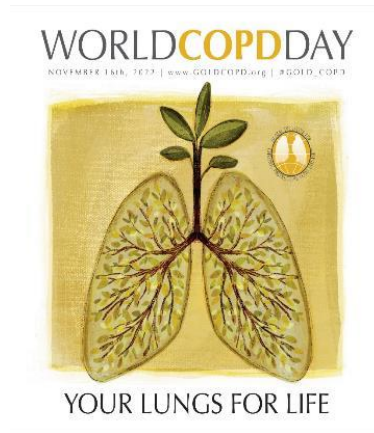


- ❖ The day is celebrated to commemorate the first and only visit of MK Gandhi, to the studio of All India Radio in Delhi in 1947.
- ❖ On 12 November 1947, Gandhi addressed the displaced people (a refugee from Pakistan), who had temporarily settled at Kurukshetra in Haryana after partition.
- ❖ The day was declared as Public Service Broadcasting Day or (Jan Prasaran Diwas) in 2000.

### **World COPD Day – November 16**

- ❖ Chronic obstructive pulmonary disease (COPD) is the third leading cause of death worldwide.

- ❖ On the third Wednesday in November (Nov 16 this year), the World COPD Day is observed.
- ❖ The 2022 theme for this Day was “Your Lungs for Life”.
- ❖ It is organized by the Global Initiative for Chronic Obstructive Lung Disease (GOLD).



### **National Epilepsy Day – November 17**

- ❖ A persistent brain illness called epilepsy is marked by periodic “fits” or “seizures”.
- ❖ Every year, November is observed as the Epilepsy Awareness Month to educate and aware people about the signs, symptoms and impact of this dreadful disease.
- ❖ The theme of National Epilepsy Awareness Month (NEAM) 2022 is “There is no NEAM without ME”.

### **World Philosophy Day – November 17**

- ❖ It is commemorated on the third Thursday of November (Nov 17 this year) every year.
- ❖ The UNESCO proclaimed it an international day.
- ❖ The theme for the 2022 World Philosophy Day is ‘The Human of the Future’.

### **International Students' Day – November 17**

- ❖ Due to the events that unfolded in Prague during World War II, the date of November 17 was selected to be observed as International Students Day.
- ❖ The day is observed to honour the bravery of student activists who defended the university in Prague in 1939 when the Nazis stormed the campus.
- ❖ The day honours student cooperation, diversity, and multiculturalism.

### **World Prematurity Day – November 17**

- ❖ As per the WHO, Preterm is defined as babies born alive before 37 weeks of pregnancy are completed
- ❖ It also includes categories of extremely preterm (less than 28 weeks), very preterm (28 to 32 weeks) and moderate to late preterm (32 to 37 weeks).
- ❖ Preterm birth, the birth of an infant before 37 weeks of pregnancy, is the largest contributor to infant death.
- ❖ Kangaroo mother care is a method of care for preterm or premature babies.
- ❖ It is a skin-to-skin contact for premature babies.
- ❖ The theme for this year is 'A parent's embrace: a powerful therapy. Enable skin-to-skin contact from the moment of birth'.

### **All India Cooperative Week – November 14 to 20**

- ❖ The theme of this year's "All India Cooperative Week Celebrations is "India@75" Growth of Cooperatives and Future Ahead".
- ❖ Currently India has become the largest cooperative movement in the world.
- ❖ It was first observed in 1953 in India.
- ❖ The National Cooperative Union of India, an apex organisation of the cooperative movement, will be organising this event.



### **National Naturopathy Day – November 18**

- ❖ It was established on November 18th 2018 by the Ministry of AYUSH (Ayurveda, Yoga and Naturopathy, Unani, Siddha and Homeopathy).
- ❖ On November 18th 1945, Mahatma Gandhi became the Chairman of the All-India Nature Cure Foundation Trust.

- ❖ Therefore, this day was chosen to be observed as National Naturopathy Day.
- ❖ It signed the agreement aimed at making the benefits of Nature Cure available to all classes of people.
- ❖ The Theme for this year's event is "Naturopathy: An Integrative medicine".
- ❖ The term naturopathy was coined by John Schell of Germany in 1895 and popularized by Benedict Lust
- ❖ Lust is also referred to as the 'Father of Modern Naturopathy'.



### **World Day for prevention of child sexual abuse – November 18**



- ❖ The UN General Assembly has declared November 18 as the World Day for the Prevention of and Healing from Child Sexual Exploitation, Abuse, and Violence.
- ❖ It is the new World Day aimed at bringing global visibility to the trauma of child sexual abuse.
- ❖ The resolution was sponsored by Sierra Leone and Nigeria and co-sponsored by more than 120 countries.

### **World Antimicrobial Awareness Week – November 18 to 24**

- ❖ This year, the theme of WAAW is “Preventing Antimicrobial Resistance Together.”
- ❖ Antibiotic resistance occurs when bacteria change in response to the use of these medicines.
- ❖ Bacteria, not humans or animals, become antibiotic-resistant.
- ❖ The World Health Organisation launched “World Antibiotic Awareness Week” in 2015.



### **Women's Entrepreneurship Day – November 19**



- ❖ It was founded and implemented by Pet Pioneer, Animal Fair Media Founder and Ellis Island Medal of Honour recipient Wendy Diamond.
- ❖ 144 nations overall recognized the first day in 2014.

### **International Men's Day (IMD) - November 19**

- ❖ It is a global observation annually to recognize and celebrate the cultural, political, and socioeconomic achievements of men.
- ❖ Unlike International Women's Day, (8 March) International Men's Day is not officially recognised by the United Nations.
- ❖ 2022's theme is "Helping men and boys".



### **World Toilet Day - November 19**

- ❖ The 2022 theme is 'Making the Invisible Visible'.
- ❖ It explores how inadequate sanitation systems spread human waste into rivers, lakes and soil, polluting underground water resources.
- ❖ The world aims to meet the promise of Sustainable Development Goal (SDG) 6.2: to ensure safe toilets for all by 2030.
- ❖ The UN General Assembly declared this Day in 2013, after Singapore had tabled a resolution in this regard.
- ❖ It is the first resolution by Singapore before the UN's General Assembly of 193 member states.
- ❖ UN-Water is the official convener of World Toilet Day.

### **National Integration Day – November 19**

- ❖ It is to commemorate the birth anniversary of the first-ever female Prime Minister of India, Indira Gandhi.
- ❖ It is to inspire people to maintain unity, peace, love and brotherhood.
- ❖ Indira Gandhi was known as the 'Iron Lady of India'.
- ❖ Indira Gandhi was born on November 19, 1917, in Allahabad, Uttar Pradesh.
- ❖ She was elected as the President of the Indian National Congress in 1959.
- ❖ She was awarded the highest civilian award 'Bharat Ratna' in 1971 and Lenin Peace Prize in 1984.
- ❖ Indira Gandhi is among the first woman whose wax statue is built at Madame Tussauds in London.

### **World Day of Remembrance for Road Traffic Victims – November 20**

- ❖ It is marked on the third Sunday of November each year (this year on November 20).
- ❖ This global event is to memorialise the victims of road traffic accidents, who have died or were seriously injured.
- ❖ The 2022 theme for this day is "Justice".
- ❖ India has about 1 per cent of the global vehicle population.
- ❖ However, 6 per cent of the world's road traffic accidents occurred in India only in 2020.

- ❖ The Road Peace organisation started the World Day of Remembrance for Road Traffic Victims in 1993.

### **World Children's Day – November 20**



- ❖ The theme for this year's day is, "Inclusion, for every child".
- ❖ It was first established in 1954 as Universal Children's Day.
- ❖ It is the date in 1959 when the UN General Assembly adopted the Declaration of the Rights of the Child.
- ❖ It is also the date in 1989 when the UN General Assembly adopted the Convention on the Rights of the Child.

### **World Television Day – November 21**

- ❖ In 21 and 22 November 1996 the United Nations held the first World Television Forum.
- ❖ Television was invented in 1924 by John Logie Baird.
- ❖ The television was introduced in 1959 in India.
- ❖ The UN Educational, Scientific, and Cultural Organization assisted India with the launch of television.
- ❖ For the first thirty years, Doordarshan was the only national broadcaster in India.

### **World Fisheries Day - November 21**

- ❖ It was started in 1997 when "World Forum of Fish Harvesters & Fish Workers" met at New Delhi.





- ❖ It was leading to formation of “World Fisheries Forum” with representatives from 18 countries.
- ❖ The first World Fisheries Day was celebrated in 2015, marking the inaugural ceremony of the International Fisheries Organization, held in New Delhi.
- ❖ This year, the Department of Fisheries celebrated the day in Daman to create awareness on the importance of healthy ocean ecosystems and sustainable fisheries.
- ❖ According to the United Nations, two-thirds of the total world fisheries have been overfished.
- ❖ India is the world's second-largest producer of fish through aquaculture.
- ❖ India is the fourth largest fish exporter globally, as it contributes 7.7% to the world's fish production.
- ❖ In 2021, Balasore District (Orissa) was awarded as India's "Best Marine District".

### **World Heritage Week – November 19 to 25**

- ❖ World Heritage Week is celebrated every year from November 19 to November 25.
- ❖ It aims to promote the conservation of culture and heritage.
- ❖ The World Heritage Week is celebrated by the Archaeological Survey of India.
- ❖ There are 3,691 monuments that are protected by the Archaeological Survey of India.
- ❖ Uttar Pradesh has the highest numbers.
- ❖ Of these around 40 are listed under the UNESCO World Heritage Sites.
- ❖ India has the sixth largest number of heritage sites in the world.

### **International Day for the Elimination of Violence Against Women - November 25**

- ❖ This is a day of remembrance for the Mirabal sisters, Dominican Republic activists who were assassinated in 1960 at Rafael Trujillo's command.
- ❖ The Convention on the Elimination of All Forms of Discrimination Against Women was adopted by the UN General Assembly in 1979.
- ❖ November 25 has been observed as a day to speak out against gender-based violence since 1981.
- ❖ The theme of the event is ‘UNITE! Activism to End Violence against Women and Girls.’

### **World Olive Tree Day - November 26**

- ❖ World Olive Tree Day was proclaimed at the 40th session of the UNESCO General Conference in 2019.
- ❖ The olive tree, specifically the olive branch has symbolized peace, wisdom and harmony.
- ❖ The average lifespan is around 500 years, but olive trees can grow much older.
- ❖ They Originally coming from Asia Minor.



### **Constitution Day - November 26**

- ❖ Every year Constitution Day is celebrated on November 26.
- ❖ The Constitution Day was declared in 2015.
- ❖ It is also known as Samvidhan Divas or National Law Day.
- ❖ The day is celebrated to mark the adoption of Constitution.
- ❖ The Constitution of India was adopted on November 26, 1949.
- ❖ The Constitution came into effect on January 26, 1950 and hence India celebrates its Republic Day on 26th January every year.

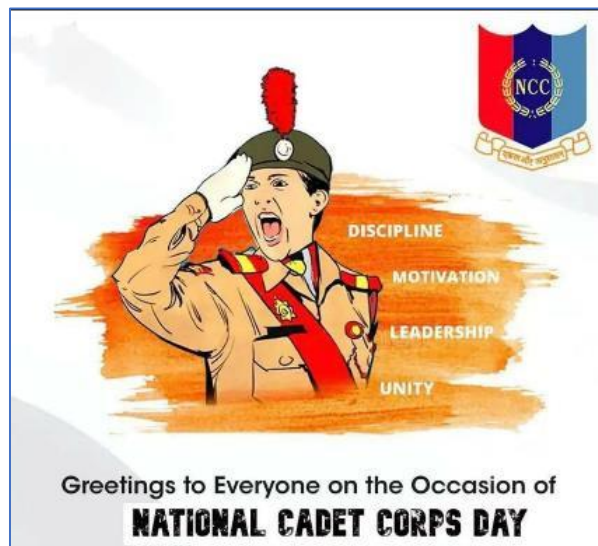
### **National Milk Day - November 26**

- ❖ This observed throughout India in honour of Dr. Verghese Kurien, the man credited with spearheading the white revolution.
- ❖ National Milk Day has been observed in India since 2014.
- ❖ The initiative taken by the Indian Dairy Association (IDA).
- ❖ The Food and Agriculture Organization of the United Nations observing World Milk Day on June 01.



### **National Cadet Corps Day - November 27**

- ❖ The National Cadet Corps (NCC) celebrated its 74<sup>th</sup> Raising Day.
- ❖ This is the world's largest uniform youth organization.
- ❖ The NCC cadets also are known as the country's second line of defence.
- ❖ They have contributed immensely to various relief operations across the country.
- ❖ NCC was formed in the year 1948 under The National Cadet Corps Act 1948.



### **Indian Organ Donation Day - November 27**

- ❖ Until 2021, the Indian Organ Donation Day was observed on November 27.
- ❖ NOTTO (National Organ and Tissue Transplant Organization) has announced that July will be observed as an organ donation month in India.
- ❖ Indian Organ Donation Day will be celebrated on August 3.
- ❖ August 3 is chosen to commemorate the first successful deceased heart transplant in India on August 3, 1994.
- ❖ The aim of this day is to motivate pupil to pledge to donate organs after death, and to spread awareness about the importance of organ donation.
- ❖ August 13th is celebrated as World Organ Donation Day.



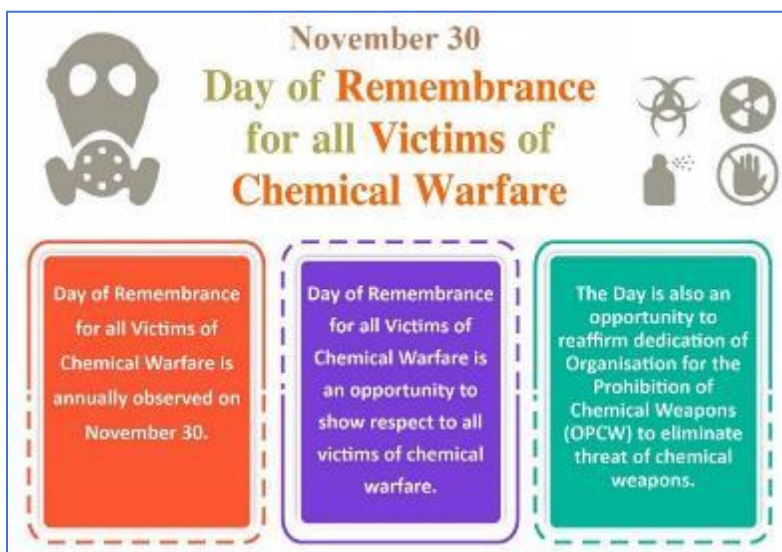
### **International Day of Solidarity with the Palestinian People - November 29**

- ❖ The day aims to spread more awareness about the issues faced by the Palestinian people along with promoting a peaceful Palestine-Israel resolution.
- ❖ On that day, in 1947, the UN General Assembly adopted the resolution on the partition of Palestine.
- ❖ Today around 4.75 million Palestinians are spread across the Gaza Strip and the West Bank.

### **Day of Remembrance for all Victims of Chemical Warfare - November 30**

- ❖ This day remembers the victims of chemical warfare and affirms the Organization of the Prohibition of Chemical Weapons' commitment to the cause
- ❖ Also, it aims at promoting the goals of peace, security, and multilateralism.
- ❖ The day is officially recognised by the United Nations (UN) and has been observed since 2005.

- ❖ Earlier, April 29 was chosen as the date for the event's celebration because the Chemical Weapons Convention entered into force on that day in 1997.
- ❖ Meanwhile, April 29 was designated "International Day for the Foundation of the Organisation for the Prohibition of Chemical Weapons" instead.
- ❖ The date was changed to November 30 at the 20th COP to the Chemical Weapons Convention in 2015.



## MISCELLANEOUS

### QS Sustainability Rankings 2023

- ❖ The very first edition of this ranking focused on social and environmental sustainability performance in higher education institutions across the world.
- ❖ Fifteen Indian institutes and universities made it to the QS Sustainable Rankings 2023.
- ❖ It led by IIT Bombay (172), IIT Delhi, and Jawaharlal Nehru University (JNU).
- ❖ Among the 15 featured institutes, there are seven IITs and IISc.
- ❖ Delhi University, Jadavpur University, Aligarh Muslim University and Banaras Hindu University also made it to the list.
- ❖ However, none of the Indian institutes made it to the top 200.
- ❖ India's top sustainable institute IIT Bombay is in the band of Ranks 281-300.

## QS WORLD UNIVERSITY RANKINGS: SUSTAINABILITY 2023: INDIAN RANKED UNIVERSITIES

| 2023 RANK | INSTITUTION  |
|-----------|--|
| 281-300   | Indian Institute of Technology Bombay (IITB)       |
| 321-340   | Indian Institute of Technology Delhi (IITD)        |
| 361-380   | Jawaharlal Nehru University                        |
| 381-400   | University of Delhi                                |
| 451-500   | Indian Institute of Technology Kanpur (IITK)       |
| 451-500   | Indian Institute of Technology Roorkee (IITR)      |
| 501-550   | Aligarh Muslim University                          |
| 501-550   | Jadavpur University                                |
| 501-550   | Vellore Institute of Technology (VIT)              |
| 551-600   | Indian Institute of Science                        |
| 551-600   | Indian Institute of Technology Kharagpur (IIT-KGP) |
| 601+      | Banaras Hindu University                           |
| 601+      | Birla Institute of Technology and Science, Pilani  |
| 601+      | Indian Institute of Technology Guwahati (IITG)     |
| 601+      | Indian Institute of Technology Madras (IITM)       |

### The coldest year of the rest of their lives



- ❖ UNICEF recently released a report titled “The coldest year of the rest of their lives”.
- ❖ It provided estimates on how many children will be exposed to following 4 measures of heatwaves by 2050.
- ❖ The 4 measures are High heatwave frequency, High heatwave duration, High heatwave severity and Extreme high temperatures.

- ❖ The report made assessment based on “low greenhouse gas emission scenario” (1.7°C warming) and “very high greenhouse gas emission scenario” (2.4°C warming).
- ❖ Climate change-induced heat waves will become an unavoidable hazard and affect every child on Earth.
- ❖ Around 624 million children are currently exposed to one of the three other high heat measures.
- ❖ Children in northern regions will experience the most dramatic increase in heat wave severity by 2050.
- ❖ Nearly 50 per cent of children in Africa and Asia will be continuously exposed to extremely high temperatures.

### **Earnings call on the metaverse**



- ❖ Reliance Industries Limited (RIL) posted the proceedings of its Q2 FY 2022-23 earnings call on the metaverse.
- ❖ This is the first time in the history of corporate India that a company has used metaverse to engage with its stakeholders.
- ❖ The RIL metaverse was produced in partnership with GMetri, a no-code metaverse creation platform.

### **India's Largest Wind Turbine**

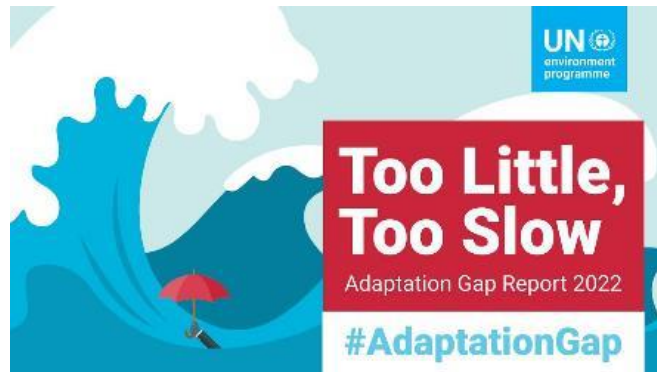
- ❖ Adani New Industries installs India's Largest Wind Turbine in Gujarat.
- ❖ A wind turbine is taller than the world's tallest Statue of Unity.
- ❖ Its blades are spanning wider than the wingspan of a jumbo jet has been installed at Mundra in Gujarat by Adani New Industries Ltd.

- ❖ Standing 200 metre tall, the wind turbine has the capacity to produce 5.2 MW of electricity and can power approximately 4,000 homes.



### **Adaptation Gap Report 2022**

- ❖ The report titled “The Adaptation Gap Report 2022: Too Little, Too Slow – Climate adaptation failure puts world at risk” was released by the United Nations Environment Programme (UNEP).
- ❖ It has been published each year since 2014 by the UNEP.



- ❖ It provides science-based assessment of the global progress on adaptation planning, financing and implementation.
- ❖ The current global efforts in adaptation planning, financing and implementation are insufficient to address the growing climate-related risks.
- ❖ The world is currently on track for a 2.8°C increase in average global temperature.
- ❖ According to researchers, if global warming is above 2°C, it could cause catastrophic climate crisis.
- ❖ At least 84% of parties to the UNFCCC have adaptation plans, strategies, policies and laws in place.



- ❖ This is a 5% increase when compared with the previous year.
- ❖ A third of the 197 parties of the UNFCCC have a quantified and time-bound targets focusing on climate adaptation.
- ❖ The cost of the adaptation needs is expected to increase to 160-340 billion USD by 2030 and 315-565 billion USD by 2050.

### **Venkateswara temple's net worth**

- ❖ Tirupati's Venkateswara temple's net worth was over Rs 2.5 lakh crore (about USD 30 billion).
- ❖ Tirumala Tirupati Devasthanams declared its net worth for the first time since its founding in 1933.
- ❖ The assets owned by TTD include land parcels, buildings, cash and gold deposits in the banks, given as offerings to the temple by devotees.



### **'Innovations for You' coffee table book**

- ❖ The fourth edition of the 'Innovations for You' coffee table book was launched recently by Atal Innovation Mission, NITI Aayog.
- ❖ This Book series feature success stories of startups that are supported through the 3 flagship programmes implemented under the Atal Innovation Mission.
- ❖ So far, four editions of coffee table books have been published.
- ❖ The first edition focused on healthcare sector.
- ❖ The second edition on agriculture and allied sector and the third on transport and mobility.
- ❖ The fourth edition of 'Innovations for You' coffee table book featured the 75 successful women entrepreneurs in India.



## India's First Sovereign Green Bonds Framework



- ❖ The Union Ministry of Finance & Corporate Affairs has approved the final Sovereign Green Bonds Framework of India.
- ❖ The Framework comes close on the footsteps of India's commitments under "Panchamrit" as explained by the Prime Minister at COP 26 at Glasgow in November 2021.
- ❖ Green bonds are issued by companies, countries and multilateral organisations to exclusively fund projects that have positive environmental or climate benefits and provide investors with fixed income payments.
- ❖ The projects include renewable energy, clean transportation and green buildings, among others.
- ❖ Proceeds from these bonds are reserved for green projects.

## **Infrastructure Resilience Accelerator Fund**



- ❖ It was announced by the Coalition for Disaster Resilient Infrastructure (CDRI) at the India Pavilion of COP27.
- ❖ This multi-donor trust fund was established with the assistance from the UNDP and the United Nations Office for Disaster Risk Reduction (UNDRR).
- ❖ The fund will be managed by the United Nation Multi-Partner Trust Fund Office (UN MPTFO) in New York.
- ❖ It will assist the global efforts towards creating disaster-resilient infrastructure systems, especially in developing countries and Small Island Developing States.
- ❖ Coalition for Disaster Resilient Infrastructure (CDRI) was launched in 2019 by Indian Prime Minister at the UN Climate Action Summit in New York.

## **60th Anniversary of the Battle of Rezang La**

- ❖ In 1962, the Charlie Company of the 13th battalion of the Kumaon Regiment fought against the Chinese attack at the Rezang La Pass in Ladakh.
- ❖ It was led by Maj. Shaitan Singh, had 117 soldiers.
- ❖ Of these, 110 were martyred during this battle.
- ❖ The 13th battalion was responsible for the defence of Chushul.
- ❖ Many of the Indian soldiers lost their lives to the freezing temperature during this battle.
- ❖ Major Shaitan Singh was also martyred after being wounded by the Chinese firing.
- ❖ He was honoured with Param Vir Chakra, making him the second army man to receive the highest gallantry award.
- ❖ Rezang La is also known as Rechin La.
- ❖ It is a mountain pass on the Line of Actual Control (LAC) between Indian-administered Ladakh and the Chinese administered Spanggur Lake basin.

- ❖ It is situated on the eastern watershed ridge of the Chushul Valley that is being claimed by China.



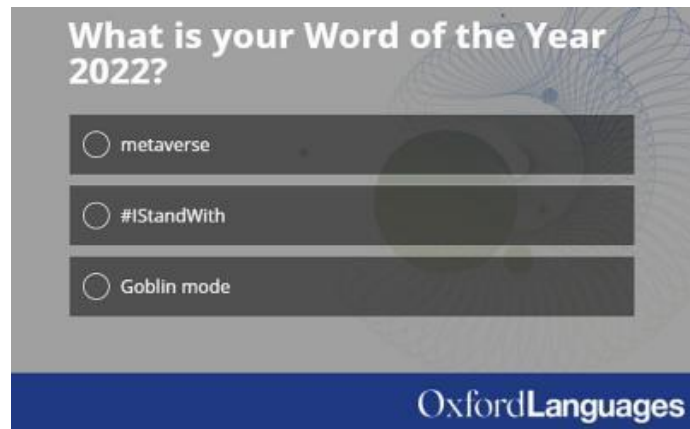
### **Publisher of the year 2022**

- ❖ HarperCollins India took home the big prize at the TATA Literature Live! Publisher of the Year 2022.
- ❖ This is HarperCollins India's second consecutive win.
- ❖ HarperCollins India has won the Publisher of the Year Award four times at Tata Literature Live! in 2022, 2021, 2018 and 2016.
- ❖ HarperCollins is also celebrating its 30th anniversary this year, having begun publishing in India in 1992.



### **Oxford Word of the Year 2022**

- ❖ This year, for the first time in Oxford Dictionary's history, the Word of the Year 2022 will be chosen by public vote.
- ❖ A team of lexicographers have zeroed-down on three words, from a longlist, for this year's Word of the Year.
- ❖ They are Metaverse, IStandWith and Goblin mode.



### Global Intellectual Property Filings

- ❖ The WIPO’s World Intellectual Property Indicators (WIPI) report showed that innovators around the world filed 3.4 million patent applications in 2021.
- ❖ This is 3.6 per cent high from the previous year with offices in Asia receiving 67.6 per cent of all applications worldwide.
- ❖ The filings in 2021 driven largely by increases from Asian countries of India, China, and South Korea.
- ❖ Strong growth in local patent filings in India (+5.5 percent), China (+5.5 percent) and the Republic of Korea (+2.5 per cent).
- ❖ Local patenting activity in the U.S. (-1.2 per cent), Japan (-1.7 per cent) and Germany (-3.9 per cent) declined in 2021.

| IP Right applications | 2020       | 2021       | Growth (%), 2020-2021 |
|-----------------------|------------|------------|-----------------------|
| Patents               | 3,281,900  | 3,401,100  | 3.6                   |
| Trademarks *          | 17,193,800 | 18,145,100 | 5.5                   |
| Industrial designs *  | 1,387,800  | 1,515,200  | 9.2                   |
| Plant variety         | 22,620     | 25,340     | 12.0                  |

