



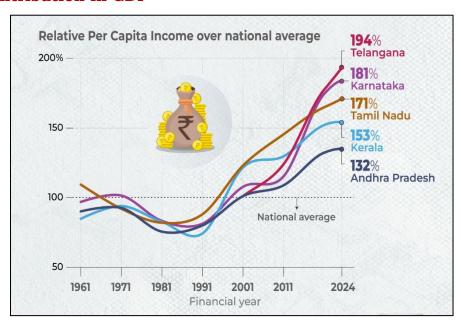
### September - 25

### TNPSC BITS

- ❖ The 20th Maritime State Development Council (MSDC) was held in Goa with significant advancements in India's maritime sector.
- ❖ Union Cabinet approved the plan to setup a new Indian Institute for Immersive Creators (IIIC) on the lines of IITs, IIMs.
- ❖ Indian Navy's lieutenant Commodore Roopa A and Lieutenant Commodore Dilna K, would embark on the 'extraordinary expedition' as part of the second Navika Sagar Parikrama onboard the INSV Tarini soon.
- ❖ The Sharjah Investment Forum (SIF) 2024 has unveiled World's First AI-Powered Trade Licence Service.
- ❖ The Department of Drinking Water and Sanitation (DDWS), Ministry of Jal Shakti, has organized the International WASH (Water, Sanitation, and Hygiene) Conference 2024 in New Delhi.
- China and Nepal are holding 10-day joint exercises 'Mt Everest Friendship 2024' in China's Chongqing city.

#### **NATIONAL**

#### **States Contribution in GDP**



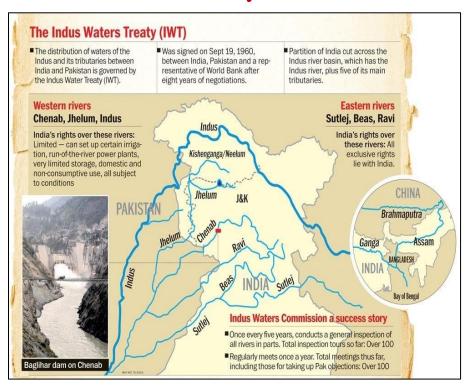
❖ Southern states have outperformed northern states in GDP contribution and per capita income.





- ❖ Karnataka, Andhra Pradesh, Telangana, Kerala, and Tamil Nadu collectively contribute 30 per cent of the country's GDP.
- ❖ Maharashtra continues to be the largest contributor to India's GDP, although its share has dropped to 13.3 per cent from over 15 per cent previously.
- ❖ Maharashtra's per capita income has risen to 150.7 per cent of the national average as of March 2024.
- ❖ Uttar Pradesh's share dropped from 14 per cent in 1960-61 to 9.5 per cent.
- ❖ Bihar, the third-most populous state, contributes just 4.3 per cent.
- ❖ West Bengal, once a top contributor with 10.5 per cent of GDP in 1960-61 now accounts for only 5.6 per cent.

### **Modification of the Indus Waters Treaty**



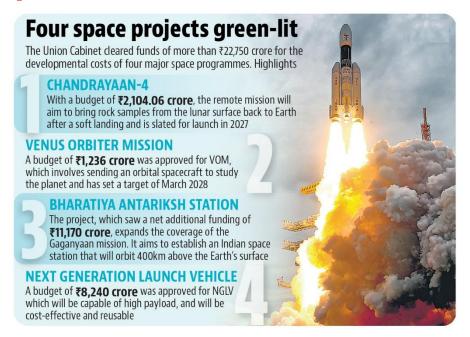
- ❖ India has again sent a formal notice to Pakistan, for the "review and modification" of the treaty.
- ❖ The treaty between India and Pakistan was signed on September 19, 1960, for the use of water available in the Indus and its tributaries.
- ❖ It was signed in Karachi by then Prime Minister Jawaharlal Nehru and then Pakistan President Mohammed Ayub Khan.
- This was held after nine years of negotiations arranged by the World Bank.





❖ India enjoys the "unrestricted use" of the three "Eastern Rivers [Beas, Ravi, Sutlej) and Pakistan got control of the three "Western Rivers" [Indus, Chenab, Jhelum].

### Funds for space missions



- ❖ The Union Cabinet approved the following four important space ISRO in the near future:
  - India's lunar mission Chandrayaan-4;
  - o The development of Venus Orbiter Mission (VOM);
  - o Bharatiya Anatriksh Station (BAS) and
  - o The development of Next Generation Launch Vehicle (NGLV).
- ❖ In total, the Cabinet has cleared funds of more than ₹22,750 crore for the developmental costs of these four programmes.
- ❖ India's first scientific mission to Venus, which aims to enable scientists to better understand the Venusian atmosphere, and geology.

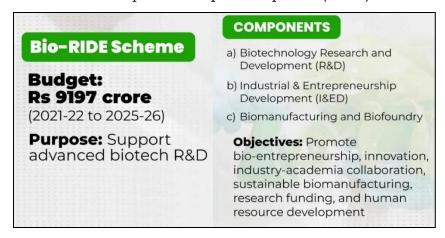
#### **Bio-RIDE Scheme**

- ❖ The Union Cabinet has approved the Biotechnology Research Innovation and Entrepreneurship Development (Bio-RIDE) scheme.
- ❖ It aims to accelerate research, enhance product development, and bridge the gap between academic research and industrial applications.





- It will offer grants and incentives for cutting-edge research and development in areas such as synthetic biology, bio-pharmaceuticals, bio-energy, and bioplastics.
- ❖ Bio-RIDE combines two existing schemes with a new component called, 'Biomanufacturing and Bio-foundry'.
- They are
  - o Biotechnology Research and Development (R&D) and
  - o Industrial and Entrepreneurship Development (I&ED).



### INTERNATIONAL

### Elimination of Leprosy - Jordan



❖ Jordan becomes the first country in the world to eliminate leprosy, receiving the official verification from the World Health Organisation (WHO).





- ❖ For this, a country must demonstrate that the prevalence of leprosy has fallen below 1 case per 10,000 population.
- ❖ It also must have effective systems are in place to detect, treat, and prevent the disease from spreading.
- ❖ Leprosy, also known as Hansen's disease, is a chronic infectious disease caused by Mycobacterium leprae.
- ❖ The disease affects the skin, the peripheral nerves, mucosal surfaces of the upper respiratory tract and the eyes.

### SCIENCE AND TECHNOLOGY

#### **Next Generation Launch Vehicle**



- ❖ The NGLV is designed to enhance payload capacity threefold compared to the current LVM3.
- ❖ Its cost will be only 1.5 times more.
- ❖ The vehicle will incorporate reusability features, ensuring more affordable access to space and the integration of modular green propulsion systems.

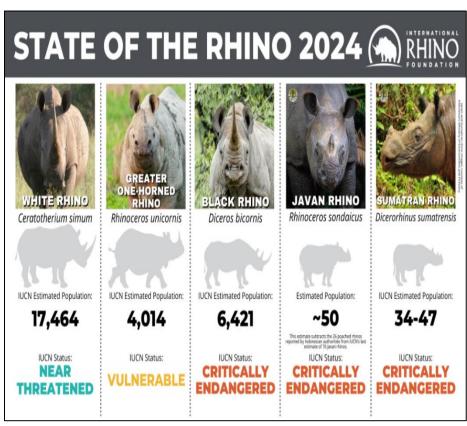




- ❖ The NGLV is engineered to support a maximum payload of 30 tonnes to Low Earth Orbit (LEO) and will include a reusable first stage.
- Currently, India has achieved self-reliance in launching satellites up to 10 tonnes to LEO and 4 tonnes to Geo-Synchronous Transfer Orbit (GTO) through operational vehicles like PSLV, GSLV, LVM3, and SSLV.

### REPORTS AND INDICES

## State of Rhino Report 2024



- ❖ The 2024 State of Rhino Report was recently released by the International Rhino Foundation.
- ❖ Currently, fewer than 28,000 rhinos remain worldwide across all five species.
- ❖ The Greater One-Horned Rhino population has steadily grown from fewer than 100 animals a century ago to around 4,014 today.
- ❖ It increased by 20% over the last decade.
- ❖ They are found in the Indo-Nepal Terai, northern West Bengal, and Assam.
- ❖ In India, the Greater One-Horned Rhino population stood at 3,262 at the end of 2021.





- Over 90% of them are in Kaziranga National Park.
- ❖ Rhino's poaching in Africa increased by 4% from 2022 to 2023.
- ❖ At least 586 African rhinos poached in 2023-one every 15 hours.

# PERSONALITIES, AWARDS, AND EVENTS

#### **India's First Astronaut to ISS**

- ❖ Indian astronaut group captain Shubhanshu Shukla is set to make history as the pilot of the Axiom-4 (Ax-4) mission.
- ❖ This will mark India's first human presence on the International Space Station (ISS).
- ❖ This will be the 2<sup>nd</sup> travel after Wing Commander Rakesh Sharma's 1984 mission with the Soviet Union.
- ❖ The Axiom-4 mission is a result of a bilateral initiative between India and US.



# **IMPORTANT DAYS**

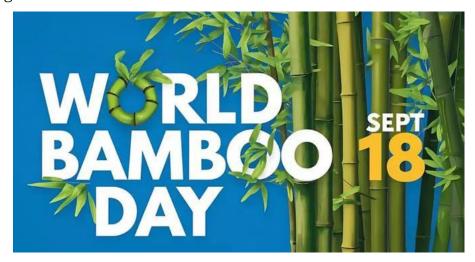
### World Bamboo Day 2024 - September 18

- This day highlights bamboo's numerous medicinal and practical uses.
- ❖ World Bamboo Organisation (WBO) has taken steps to promote its conservation, sustainable use, and the protection of our environment.

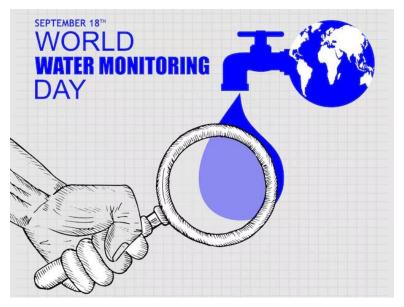




❖ This day was established in 2009, during the eighth World Bamboo Congress in Bangkok.



# World Water Monitoring Day 2024 - September 20



- ❖ In 2003, America's Clean Water Foundation (ACWF) launched this day.
- ❖ Initially, the date was October 18, in honour of the US Clean Water Act 1972.
- ❖ To maximize the number of participants and participating countries, the official date was changed to September 18 in 2007.
- ❖ The theme 2024 is 'Water for Peace'.
- ❖ 72% of freshwater withdrawals are used by agriculture.
- ❖ About 80% of jobs are water-dependent in low-income countries
- ❖ Some 700 million people could be displaced by intense water scarcity by 2030.





❖ By 2040, roughly 1 in 4 children worldwide will be living in the areas of extremely high-water stress.

# World Cleanup Day 2024 - September 20



- ❖ It is a global social program aimed at tackling the problems associated with marine debris and waste management.
- ❖ It will be uniting 157 countries across the world for a cleaner planet.
- ❖ On 8 December 2023, the United Nations General Assembly declared this day.
- ❖ The theme for 2024 is 'Arctic Cities and Marine Litter'.

