

October - 28

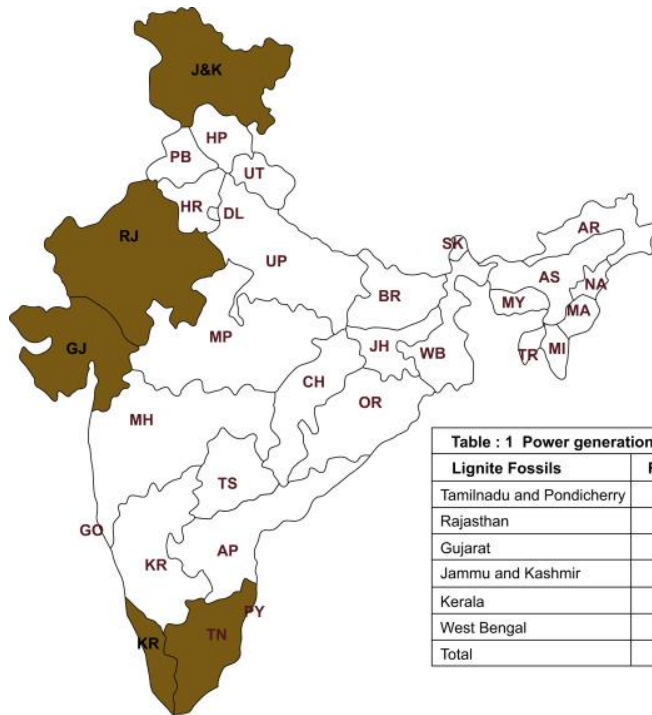
TNPSC BITS

- ❖ A high-level committee for social sciences of NCERT has recommended replacing the name 'India' with 'Bharat' in textbooks and introducing 'classical History' instead of ancient History in the curriculum.
- ❖ Air Vice Marshal Sadhna S Nair was promoted as Air Marshal and she becomes the second woman medical officer in the history of IAF to achieve this rank.
 - Air Marshal Padma Bandopadhyay made history as the first woman to ascend to the rank of Air Marshal in the Indian Air Force.
- ❖ The Indian and Malaysian armies have commenced "Exercise Harimau Shakti 2023."
- ❖ Mumbai was the second most polluted city among 109 places tracked by IQAir, a Swiss technology company measuring air quality in real-time.
- ❖ India's first Nano DAP plant was inaugurated in Gandhinagar, Gujarat.
- ❖ The Department of Pension and Pensioners' Welfare (DoPPW) hosted the Anubhav Awards 2023 Ceremony at Vigyan Bhawan in New Delhi.
- ❖ The National Security Council Secretariat (NSCS) has conducted the 2nd Edition of the National Cyber Security Exercise 'Bharat NCX 2023.'
- ❖ A national hackathon named "Vimarsh-2023" was launched to identifying innovative tools to ensure the secure utilization of 5G technology by law enforcement agencies during sensitive operations.
- ❖ The Drums and Tins (Quality Control) Order 2023, and the Copper Products (Quality Control) Order 2023, notified to prohibit the production, sale, import and stocking of certain items unless they bear the Bureau of Indian Standards (BIS) mark.
- ❖ The Cabinet Committee on Economic Affairs (CCEA), gave node to including the Jamrani Dam Multipurpose Project of Uttarakhand under the Pradhan Mantri Krishi Sinchayee Yojana-Accelerated Irrigation Benefit Programme (PMKSY-AIBP).
- ❖ Competition Commission of India (CCI) has become a member of the steering group of the International Competition Network (ICN).
- ❖ The Indian Oil Corporation has achieved a significant milestone by producing specialized "reference" petrol and diesel for the first time in India.
- ❖ The cyclonic storm Hamoon over coastal Bangladesh weakened into deep depression over southeast Bangladesh & adjoining Mizoram.

- ❖ To augment the training infrastructure of special forces and combat free-fallers, the Army's Special Forces Training School (SFTS) at Bakloh, Himachal Pradesh, has setup the Army's first Vertical Wind Tunnel (VWT).
- ❖ Sri Lanka announced that travellers from seven countries – India, China, Russia, Malaysia, Japan, Indonesia and Thailand can now have a visa-free entry to Sri Lanka.
- ❖ The government of Saudia Arabia hosted the Middle East and North Africa Climate Week 2023 in the city of Riyadh from 8-12 October, 2023.
- ❖ Rohit Sharma completed 50 ODI sixes in 2023 and becoming first Indian to smash 50 sixes in ODI cricket in a calendar year.
 - South Africa's AB de Villiers (58 sixes in 2015) holds the record of hitting highest number of sixes in ODIs in a calendar year.

TAMIL NADU

Lignite production



- ❖ Tamil Nadu was the largest producer of lignite and produced 22.480 million Tonnes (MT) in 2022-23.
- ❖ The overall production of lignite declined 5.27% to 44.990 MT in 2022-23 from 47.492 MT in 2021-22, as per the provisional figures.

- ❖ Tamil Nadu accounted for 49.97% of the production, followed by Gujarat at 27.37%, and Rajasthan at 22.67%.
- ❖ Tamil Nadu accounts for about 82% of India's lignite reserves of 40.9 billion tonne.
- ❖ Lignite deposits in India are primarily located in the tertiary sediments in the Southern & Western parts of the peninsular shield, particularly in Tamil Nadu, Puducherry, Gujarat, Rajasthan and Jammu & Kashmir.
- ❖ Lignite is also available in minor quantities in Odisha, Kerala & West Bengal

NATIONAL

Heat Wave Hotspots of India



- ❖ A study by the Mahamana Centre of Excellence in Climate Change Research analysed future changes in heat wave characteristics over India for mid-term (2041-2060).
- ❖ It was also the study of the long-term (2081-2099) future under the RCP 4.5 and RCP 8.5 emission scenarios respectively.
- ❖ The Northwestern, central and south-central India emerged as future heat wave hotspots with the largest increase in the south-central region.
- ❖ Representative Concentration Pathways (RCP) are used to capture future trends on how concentrations of greenhouse gases in the atmosphere will change in future as a result of human activities.

- ❖ In the RCP 4.5 scenario, emissions peak during the mid-century and decline at the end of the century.
- ❖ The RCP 8.5 is the highest baseline scenario in which emissions rise throughout the century.

Employment Outlook of the Country



Data for Development

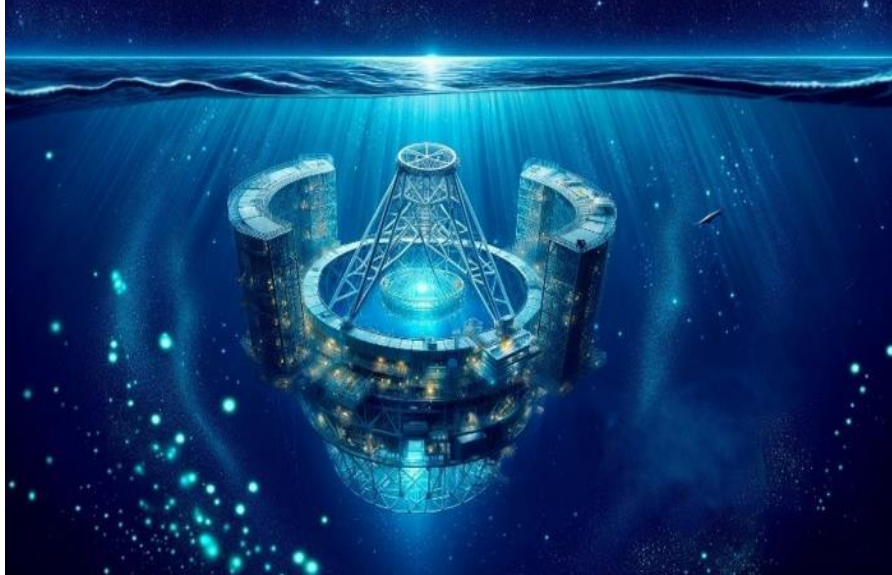
- ❖ The National Statistical Office (NSO), Ministry of Statistics and Programme Implementation published the Employment Outlook of the country for the period of September 2017 and August 2023.
- ❖ India's formal sector employment jumped by 0.4 million in the October-December quarter of 2021.
- ❖ A total of 36,53,544 new subscribers joined and contributed in the NPS the central government, state governments, and corporate schemes during September, 2017 to June, 2022.
- ❖ The total number of workers employed across nine sectors was 31.4 million.

SCIENCE AND TECHNOLOGY

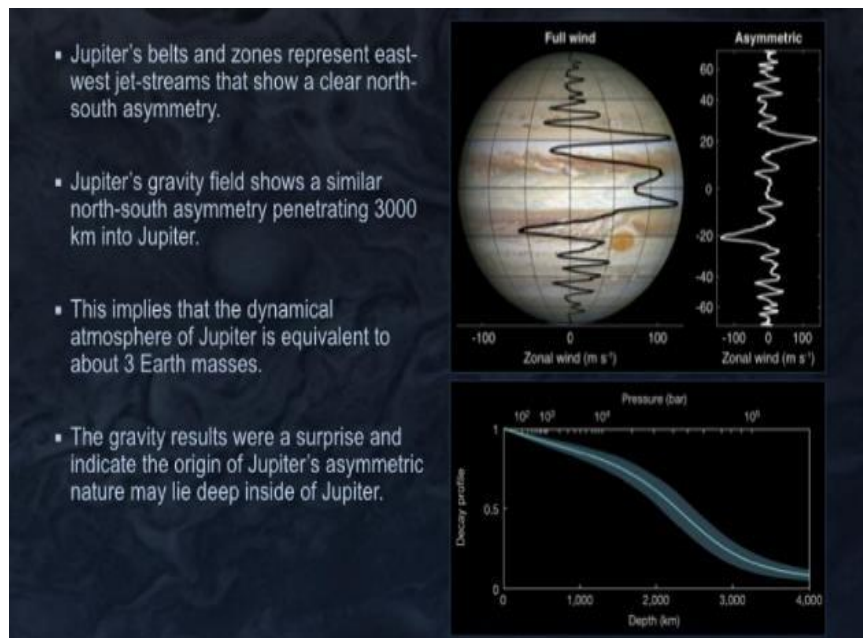
Underwater "Ghost Particle" Detector

- ❖ China is building an enormous telescope in the western Pacific Ocean.
- ❖ Its job will be to detect "ghost particles", also known as neutrinos.
- ❖ The telescope will be the largest of its kind.
- ❖ Neutrinos are a type of electron but, like neutrons, they do not have any charge.
- ❖ Ghost particles rarely interact with other particles.

- ❖ Sometimes they interact with water molecules, which is why China is building its ghost molecule telescope underwater.
- ❖ Right now, the largest neutrino-detecting telescope is the University of Madison-Wisconsin's "IceCube" telescope, situated deep in the Antarctic.



Jet Stream in Jupiter



- ❖ A high-speed jet stream discovered in Jupiter's lower stratosphere.
- ❖ It is an atmospheric layer sits over the planet's equator about 25 miles (40 kilometers) above the clouds.

- ❖ James Webb Space Telescope' data aided for this discovery.
- ❖ The jet stream spans more than 3,000 miles (4,800 kilometers) wide and moves at 320 miles per hour (515 kmph).
- ❖ It is equal to twice the rate seen with sustained winds of a Category 5 hurricane on Earth.

IMPORTANT DAYS

International Lead Poisoning Prevention Week 2023 - October 22/29



- ❖ This observation takes place every year during the third week of October.
- ❖ It aims to raise awareness about health effects of lead exposure and highlight the efforts of countries and partners to prevent lead exposure, particularly in children.
- ❖ The focus of this year's campaign will be "End Childhood Lead Poisoning."

MISCELLANEOUS

Revival of Mushk Budji

- ❖ Mushk Budji is likely to get a major boost in its yield with the Jammu and Kashmir authorities.
- ❖ They are planning to expand its cultivation area to 5,000 hectares in the next three years.

- ❖ It is the indigenous aromatic rice variety from Kashmir.
- ❖ Mushk Budji rice was granted a Geographical Indication (GI) tag recently.



★ ★ ★ ★ ★ ★ ★ ★ ★ ★