

1. Which organization recently launched Earth Observation Satellite 'EOS-08'?

- A. ISRO
- B. NASA
- C. CNSA
- D. JAXA



- ✓ **ISRO launched the Earth Observation Satellite EOS-08 under the SSLV-D3/EOS-08 mission using the Small Satellite Launch Vehicle (SSLV)-D3 from Sriharikota. The satellite will operate in a circular Low Earth Orbit at 475 km altitude with a 37.4° inclination and has a mission life of 1 year. The mission also included SR-0 DEMOSAT, developed by Space Kidz India. Objectives of EOS-08 include designing a microsatellite, developing compatible payload instruments, and incorporating new technologies for future operational satellites.**

2. How many Gallantry Awards were approved by the President on Independence Day 2024?

- A. 97
- B. 100
- C. 103
- D. 110

103

- ✓ **President Droupadi Murmu approved 103 Gallantry awards for Armed Forces and Central Armed Police Forces on Independence Day. The awards include four Kirti Chakras (three posthumous), 18 Shaurya Chakras (four posthumous), and one Bar to Sena Medal (Gallantry). Additional awards include 63 Sena Medals (Gallantry, two posthumous), 11 Nao Sena Medals (Gallantry), and six Vayu Sena Medals (Gallantry). 39 Mention-in-Despatches were approved, including for Army Dog Kent.**
- ✓ **The President also approved one President's Tatrakshak Medal (Distinguished Service), one Tatrakshak Medal (Gallantry), and two Tatrakshak Medals (Meritorious Service) for the Indian Coast Guard, along with the President's Police Medal for Distinguished Services and Police Medal for Meritorious Service.**

3. Recently, which state has become the first Indian state to launch a Gross Environment Product Index?

- A. Himachal Pradesh
- B. Uttarakhand
- C. Madhya Pradesh
- D. Gujarat

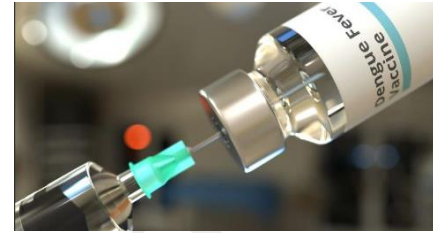


- ✓ **Uttarakhand is the first Indian state to launch a Gross Environment Product Index (GEPI). GEPI evaluates ecological development influenced by human actions. It focuses on four pillars: air, soil, trees, and water. The formula is: GEP index = (Air-GEP index + Water-GEP index + Soil-GEP index + Forest-GEP index).**

- ✓ GEPI helps assess the impact of human activities on ecosystems, measures contributions back to the environment, and quantifies the economic and welfare benefits of natural ecosystems.

4. What is 'DengiAll'?

- A. Artificial sweetener
- B. Dengue vaccine
- C. AI tool
- D. Newly discovered galaxy



- ✓ The tetravalent dengue vaccine, DengiAll, has entered phase-3 clinical trials. The trials are a collaboration between the Indian Council of Medical Research and Panacea Biotec. Dengue is a viral infection transmitted by infected female Aedes mosquitoes, also responsible for chikungunya and Zika. It is common in tropical and subtropical areas, mainly in urban and semi-urban regions. Dengue can lead to severe conditions like dengue hemorrhagic fever and dengue shock syndrome. Currently, there is no antiviral treatment or licensed vaccine for dengue in India.

5. What is the primary objective of the PM-PRANAM scheme?

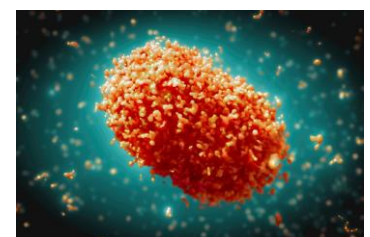
- A. To increase the use of chemical fertilisers
- B. To reduce the use of chemical fertilisers by incentivizing states
- C. To provide free chemical fertilisers to farmers
- D. To promote chemical fertilisers over organic ones



- ✓ The Union Minister of State for Chemicals and Fertilisers discussed the PM-PRANAM initiative in the Lok Sabha recently. The Cabinet approved the PM Programme for Restoration, Awareness Generation, Nourishment, and Amelioration of Mother-Earth (PM-PRANAM) on June 28, 2023.
- ✓ The scheme aims to reduce chemical fertilizer use by incentivizing states. States that cut chemical fertilizer use will receive a subsidy based on the savings. The goal is to promote balanced fertilizer use, including bio and organic fertilizers. States/UTs will get 50% of the saved subsidy as a grant, which can be used for benefiting farmers and other state needs.

6. Recently, World Health Organization (WHO) declared which virus a Public Health Emergency of International Concern (PHEIC)?

- A. Ebola virus
- B. Zika virus
- C. Monkeypox virus
- D. SARS-CoV-2 virus



- ✓ The WHO declared mpox a "public health emergency of international concern" (PHEIC) for the second time in two years. A PHEIC is a serious and unexpected health event that spreads internationally and needs a coordinated global response.
- ✓ Mpox is caused by the monkeypox virus (MPXV), a double-stranded DNA virus from the Orthopoxvirus genus. There are two genetic clades of MPXV: clade I and clade II. mpox was first reported in humans in 1970 in the Democratic Republic of the Congo.

7. Recently, which country hosted the "3rd Voice of Global South Summit"?

- A. Nepal
- B. Bhutan
- C. India
- D. Myanmar



- ✓ Prime Minister Narendra Modi inaugurated the 3rd Voice of Global South Summit on August 17, 2024, held virtually with participation from many Global South leaders. The summit is rooted in the Indian philosophy of Vasudhaiva Kutumbakam, providing a platform for Global South countries to discuss vital issues. The theme is "An Empowered Global South for a Sustainable Future," focusing on conflicts, food and energy security, and climate change.

8. Recently, where was the 17th edition of the International Earth Sciences Olympiad (IESO) held?

- A. Beijing, China
- B. New Delhi, India
- C. London, UK
- D. Moscow, Russia



- ✓ The Indian student team won multiple medals at the 17th International Earth Sciences Olympiad (IESO) held in Beijing, China, from August 8-16, 2024. It was established in 2003. IESO is an annual competition for secondary school students worldwide. It aims to raise awareness of earth sciences through teamwork, collaboration, and competition.
- ✓ The event encourages young people to engage in earth system sciences and discuss environmental challenges. IESO is part of the REACHOUT scheme by the Ministry of Earth Sciences, with India participating since 2007 and hosting the 10th edition in Mysore.

9. Recently, which state has become the third state after Kerala and Bihar to introduce menstrual leave policy for working women?

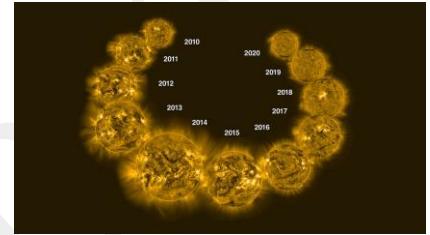
- A. Odisha
- B. Karnataka
- C. Madhya Pradesh
- D. Kerala



- ✓ Odisha became the third state in India to introduce menstrual leave for working women in both public and private sectors. Deputy Chief Minister Pravati Parida announced that women can take one day of leave on the first or second day of their menstrual cycle.
- ✓ This new policy applies to both government and private sector employees. Bihar and Kerala also provide menstrual leave, with Bihar offering two days per month for women employees and Kerala offering three days for female students.

10. Recently, which institute has developed a new method to predict the amplitude of the upcoming solar cycle?

- A. National Atmospheric Research Laboratory
- B. Indian Institute of Astrophysics
- C. Indian Institute of Remote Sensing
- D. Indian Institute of Space Science and Technology



- ✓ Astronomers at the Indian Institute of Astrophysics (IIA) developed a method to predict the strength of upcoming solar cycles. This discovery uses over 100 years of solar data from IIA's Kodaikanal Solar Observatory.
- ✓ Solar images at a specific wavelength (393.3 nm) revealed a correlation between the width of supergranular cells during the solar cycle's minimum phase and the number of sunspots in the next maximum phase. This method offers a simple and effective way to predict solar activity. Accurate solar cycle predictions are crucial for improving space weather forecasting.

11. Malabar tree toad is endemic to which region of India?

- A. Western Ghats
- B. Eastern Ghats
- C. Ladakh
- D. North Eastern



- ✓ According to recent study, climate change may reduce the Malabar Tree Toad's range by up to 68.7% in India's protected areas. This toad is the only species in the genus Pedostibes and was first discovered in 1876 but not seen again until 1980. It was rediscovered in Silent Valley National Park, Kerala. It is endemic to India's Western Ghats. It lives in evergreen to moist deciduous forests, climbing trees and dwelling in tree cavities.

12. Recently, which country reported the first confirmed case of deadly mpox variant outside Africa?

- A. Germany
- B. Barbados
- C. Sweden
- D. France



- ✓ Sweden reported its first case of the dangerous Clade 1b variant of mpox, which has been causing a severe outbreak in the Democratic Republic of Congo since September 2023. The case was confirmed in Stockholm and contracted during a visit to Africa.

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