

Weekly Quiz Answers (29 May- 4 June)

Ans 1. C

Explanation:

Statement I: The global temperatures apparently owing to climate change are likely to surge to a record high in the next five years. This will be caused due to heat-trapping greenhouse gases and a naturally occurring El Nino event, says the World Meteorological Organisation (WMO).

Statement II: The WMO further stated that the chances of temporarily exceeding 1.5°C temperature have risen steadily since 2015 when it was close to zero. For the years between 2017 and 2021, the WMO said there was a 10 per cent chance global temperature would breach the 1.5°C level.

Ans 2. A

Explanation:

- DSR is a system wherein rice seeds are sown directly into the field, as opposed to the traditional method of growing seedlings in a nursery, and then transplanting into a flooded field.
- In transplanting, farmers prepare nurseries where paddy seeds are first sown and raised into young plants. These seedlings are then uprooted and replanted - days later in the main field with standing water.
- In DSR, water is replaced by real chemical herbicides, and in transplanting, standing water acts as a herbicide and prevents the growth of weeds by denying them oxygen in the submerged stage.

Ans 3. Ans. B

Explanation: Statements 2 and 3 are correct.

According to the notification:

- The number of applications allowed per applicant for support under the Scheme shall be restricted to one (1).
- The applicants of the existing PLI Scheme, who have not claimed any incentive will be allowed to participate in the PLI 2.0 Scheme as new entrants, provided they are selected.
- The applicants of the existing PLI Scheme, who wants to claim incentive (Year 1/Year 2), will be allowed to participate in PLI 2.0 Scheme from the next year (Year 2/Year 3) for which incentive is not claimed provided they are selected. In such cases, their investment done during the tenure of the existing PLI Scheme will be considered as an eligible investment under the PLI 2.0 Scheme.

Ans 4. Ans. A

Explanation:

The correct match for each pair is given below:

- **NVS 01:** NVS- is first of the **India's** second-generation satellites envisaged for NavIC Navigation by Indian Constellation services.
- **GLONASS:** Full Form of GLONASS is Globalnaya Navigazionnaya Sputnikovaya Sistema, or Global Navigation Satellite System. **Soviet Union** started the development of GLONASS in 1976. GLONASS is the most expensive program of the Russian Federal Space Agency, consuming a third of its budget in 2010
- **Galileo:** Galileo is **Europe's** Global Navigation Satellite System (GNSS), providing improved positioning and timing information with significant positive implications for many European services and users.
- **Beidou:** The BeiDou Navigation Satellite System (BDS) has been independently constructed and operated by **China** with an eye on the needs of the country's national security and economic and social development.

Ans 5. B

Explanation: Statements 1 and 3 are correct.

In 2022, at UN Environment Assembly in Nairobi, 175 countries agreed to develop a legally binding global treaty called GPT to end plastic pollution by 2024.

- The treaty emphasizes the importance of cooperation among governments, industries, and stakeholders to achieve the objective of reducing pollution.
- By uniting nations and mobilizing collective action, the Global Plastics Treaty holds the potential to drive systemic change, set targets for plastic waste reduction, promote sustainable practices, and protect our environment for future generations.

Ans 6. B

Explanation: Pair 1 and Pair 2 are correct.

The Union health ministry has included six rare diseases including Laron's syndrome, Wilson's disease and hypophosphatemic rickets among others into various groups of disorders under the National Policy for Rare Diseases (NPRD), 2021, enabling the patients of these diseases to avail financial assistance for treatment.

According to an office memorandum released by the ministry recently:

- **Laron's Syndrome**, a rare disease in which the body is unable to utilise the growth hormones resulting in short stature, has been added under Group One.
- **Wilson's disease**, a rare disorder in which copper is accumulated in vital organs like liver, brain and others.
- **Congenital adrenal hyperplasia (CAH)**, a group of genetic disorders that affect the adrenal glands.
- **Neonatal Onset Multisystem Inflammatory Disease (NOMID)** that causes continuous inflammation and tissue damage impacting the nervous system and joints, are included under the Group Two disorders, under the disorders that are amenable to other forms of therapy including hormone and specific drugs.

Ans 7. C

Explanation:

- India's newly inaugurated Parliament building showcases a remarkable piece of scientific artistry suspended from its ceiling - a Foucault pendulum.
- A Foucault pendulum is a simple device named after French physicist Léon Foucault that demonstrates the Earth's rotation.
- The rate of rotation of the pendulum depends on the latitude of the location where it is suspended. At the equator, the pendulum does not rotate.
- At the North Pole, the pendulum rotates once every 24 hours.

Ans 8. B

Explanation:

The recent excavations by the Archaeological Survey of India (ASI) at Purana Qila (Old Fort) in Delhi have revealed a continuous history spanning over 2,500 years. These excavations are aimed to establish the complete chronology of the site.

- Artifacts from various historical periods have been discovered, which revealed 9 cultural levels including **Pre-Mauryan, Mauryan, Sunga, Kushana, Gupta, Post-Gupta, Rajput, Sultanate, and Mughal.**

Ans 9. A

Explanation:

A “contemporised” version of the Dancing Girl figurine of Mohenjodaro, was used as a mascot for the International Museum Expo 2023 in Delhi. The traditional craft of Channapatna toys, also protected by a GI (geographical indication) tag, was used to create this mascot.

About the Figure:

- The Dancing Girl figurine is one of the most famous and iconic artefacts of the Indus Valley Civilization (IVC), also known as the Harappan Civilization.
- It was discovered in 1926 by archaeologist Ernest Mackay at Mohenjodaro, one of the largest and most advanced urban settlements of the ancient world.
- The figurine is made of bronze and was sculpted using the lost wax technique.

Ans 10. B

Explanation:

- **Kavach is an indigenously developed Automatic Train Protection System (ATPS)** developed by the Research Design and Standards Organisation (**RDSO**) for the Indian Railways.
- It is a train collision avoidance system that uses radio frequency identification (RFID) technology to communicate between trains and trackside equipment.

- Kavach can detect approaching trains and alert train drivers of potential collisions. It can also automatically apply the brakes to trains if a collision is imminent.
- Kavach is designed to reduce the risk of train collisions and improve train safety.
- It is currently being used on selected sections of the Indian Railways network.
- The plan is to eventually deploy Kavach on all sections of the Indian Railways network.

Ans 11. A

Explanation:

In 2017, the National Institution for Transforming India (NITI Aayog) in collaboration with the Ministry of Health and Family Welfare (MoHFW) and the World Bank initiated an annual Health Index for tracking Overall Performance and Incremental Performance across all states and Union Territories (UTs).

- Kerala, Tamil Nadu and Telangana emerged as the top performers among the 'larger states' in the NITI Aayog's annual 'health index' for the Covid year of 2020-21.

Ans 12. D

Explanation:

- De-dollarization is the process of reducing the use of the United States dollar in a country's economy.
- This can be done by using other currencies, such as the euro or the Chinese yuan, for trade and investment. It can also be done by holding less US dollars in reserve.
- There are a number of reasons why countries might want to de-dollarize.
 - One reason is that they may be concerned about the US government's ability to print money and devalue the dollar.
 - Another reason is that they may be concerned about the US government's use of economic sanctions against other countries.
- Recently, 18 countries, including UK, Germany, Russia etc., have been given permission to trade in Indian rupees.

Ans 13. A

Explanation:

- Government-owned consultancy firm Engineers India (EIL) is studying the prospects and feasibility of developing salt cavern-based strategic oil reserves in Rajasthan to achieve energy security.
- Unlike underground rock caverns, which are developed through excavation, salt caverns are developed by the process of solution mining, which involves pumping water into geological formations with large salt deposits to dissolve the salt.

Ans 14. B

Explanation:

It is capable of carrying a payload of up to 1,000 kg.

Ans 15. A

Explanation:

- CBI, NIA and Narcotics Control Bureau (NCB) will be provided access to National Automated Fingerprint Identification System (NAFIS).
- It will integrate central agencies' data with that of states' police records. Thus, enabling agencies to upload, trace and retrieve the data in real time, thereby tracing criminals and solving cases faster.
- NAFIS, web-based application, is a central repository of criminal fingerprint data generated in states and Union territories.
- It was developed by National Crime Records Bureau (NCRB) in 2022.
- It assigns a unique 10-digit National Fingerprint Number (NFN) to each person arrested for a crime.