

## Answers

### 1) C

It has been developed after the recent notification of Transgender Persons (Protection of Rights) Rules, 2020.

This highly useful Portal would help a transgender person in applying for a Certificate and Identity card digitally from anywhere in the country.

The most important benefit is that it helps the transgender person to get the I-Card without any physical interface and without having to visit any office.

This portal will help a lot of people from the community to come forward and get Transgender Certificate and Identity Cards as per their self-perceived identity which is an important provision of The Transgender Persons (Protection of Rights) Act, 2019.

### 2) D

Sentinel-6 has been developed jointly by the European Space Agency (ESA), NASA, European Organisation for the Exploitation of Meteorological Satellites (Eumetsat), the USA's National Oceanic and Atmospheric Administration (NOAA) and the EU, with contributions from France's National Centre for Space Studies (CNES).

The Sentinel is a joint endeavour between Europe and the US, and will continue the measurements that have been made by a succession of spacecraft, called the Jason-Topex/Poseidon series, going back to 1992. It aims to collect the most accurate data yet on sea level and how it changes over time. These earlier missions have shown unequivocally that sea levels globally are rising, at a rate in excess of 3mm per year over the 28-year period. And their most recent data even suggests there is acceleration under way, with levels recorded as going up at over 4mm per year.

### 3) C

Chang'e-5 probe, which is named after the Chinese Moon goddess who is traditionally accompanied by a white or jade rabbit, is the Chinese National Space Administration's (CNSA) lunar sample return mission that is set to launch on November 24 from the Wenchang Space Launch Center on Hainan Island in China.

The goal of the mission is to land in the Mons Rumker region of the moon, where it will operate for one lunar day, which is two weeks long and return a 2 kg sample of the lunar rock possibly by digging about 2 meters deep into the surface of the Moon.

**4) C**

Recently, the researchers discovered a terracotta object containing Brahmi inscription written in Prakrit language and in characters of the 3rd century B.C. The inscription reads “Devanam” prefixed with a symbol of ‘Nandipada’.

The word “devanam” suggests indicating the part of the title of Emperor Asoka of the Mauryan dynasty. The discovery of Brahmi script paleographically assignable to Mauryan period on the terracotta is a rare and landmark epigraphical discovery in India.

**5) D**

**6) C**

The Biological and Toxin Weapons Convention (BTWC) was the first multilateral treaty categorically banning a class of weapon. The treaty prohibits the development, stockpile, production, or transfer of biological agents and toxins of “types and quantities” that have no justification for protective or peaceful use. Furthermore, the treaty bans the development of weapons, equipment, or delivery systems to disseminate such agents or toxins. There is no formal verification regime to monitor compliance. Member States are encouraged to abide by numerous confidence-building measures (CBMs) prescribed by State Parties at various review conferences.

**7) D**

**8) A**

A regulatory sandbox (RS) usually refers to live testing of new products or services in a controlled/test regulatory environment for which regulators may (or may not) permit certain regulatory relaxations for the limited purpose of the testing.

It allows the regulator, the innovators, the financial service providers (as potential deployers of the technology) and the customers (as final users) to conduct field tests to collect evidence on the benefits and risks of new financial innovations, while carefully monitoring and containing their risks.

**9) C**

The Electronic Vaccine Intelligence Network (eVIN) is an innovative technological solution aimed at strengthening immunization supply chain systems across the country. This is being implemented under National Health Mission (NHM) by Ministry of Health and Family Welfare.

eVIN aims to provide real-time information on vaccine stocks and flows, and storage temperatures across all cold chain points in the country.

**10) C**

Some of the countries that have already declared climate emergency include the UK, Portugal, Canada, France and, most recently, Japan.

In 2019, the Oxford dictionaries declared “climate emergency” to be the word of the year. It defines “climate emergency” as a situation in which urgent action is required to reduce or halt climate change and avoid potentially irreversible environmental damage resulting from it. Climate emergency reflects the ethos, mood, or preoccupations of the passing year, and have lasting potential as a term of cultural significance.

**11) C**

Invest India is the National Investment Promotion and Facilitation Agency of India. It was set up in 2009 as a non-profit venture under the Department for Promotion of Industry and Internal Trade (DPIIT).

It will act as the first point of reference for investors in India. Invest India focuses on sector-specific investor targeting and development of new partnerships to enable sustainable investments in India. It actively works with several Indian states to build capacity as well as bring in global best practices in investment targeting, promotion and facilitation areas.

**12) D**

Recently a group of scientists has reported a new genus of tree frog from the Andaman Islands called Striped Bubble-nest frog.

Striped Bubble-nest frog belongs to the genus of the Old World tree frog family Rhacophoridae. This is the first report of a tree frog species from the Andaman Islands. It has a small and slender body (2-3 cm long).

It lays Light green-coloured eggs in arboreal bubble-nests, Arboreal means living in trees or related trees.

They are also known as Asian Glass Frog or see through frogs. While the general background coloration of most glass frogs is primarily lime green, the abdominal skin of some members of this family is translucent (allowing light to pass through). The internal viscera, including the heart, liver, and gastrointestinal tract, are visible through this translucent skin, hence the common name

**13) A**

**14) C**

**15) B**

**16) C**

To ensure the working of Indian Navy, Coast Guard and Marine Police in an integrated manner, an organization named the Information Management & Analysis Centre (IMAC) was setup in 2014.

It is based in Gurgaon and is the nodal centre for maritime security information collation and dissemination. It is jointly operation by the Navy and the Coast Guard and is the corner stone of the National Command Control Communication and Intelligence Network for monitoring maritime traffic in India's area of interest.

**17) B**

Brain Electrical Oscillation Signature Profiling (BEOS) also known as brain fingerprinting is a neuro psychological method of interrogation in which a suspect participation in a crime is detected by electing electro physiological impulses, it is also a tool which measures the changes in electrical activity of the brain associated with the presence of knowledge provoked by probe when the suspect does not have to offer an answer or response. It works on EEG (Electro encephalograph machine). BEOS is a non-invasive technique with a great degree of sensitivity and a neuro-psychological method of interrogation which is referred to as brain fingerprinting or brain finger mapping. BEOS is used to identify individuals with experience of participating in a crime.

**18) C**

These are debt instruments that offer to pay the investor a maturity amount lower than the purchase price of the bond. These are generally issued by central banks or governments, and investors pay interest to the borrower to keep their money with them.

Negative-yield bonds attract investments during times of stress and uncertainty as investors look to protect their capital from significant erosion. At a time when the world is battling the Covid-19 pandemic and interest rates in developed markets across Europe are much lower, investors are looking for relatively better-yielding debt instruments to safeguard their interests.

**19) C**

PRAGATI (Pro-Active Governance and Timely Implementation) is a unique integrating and interactive platform. The platform is aimed at addressing common man's grievances, and simultaneously monitoring and reviewing important program and projects of the Government of India as well as projects flagged by State Governments. It is a three-tier system (PMO, Union Government Secretaries, and Chief Secretaries of the States). The PRAGATI platform uniquely bundles three latest technologies: Digital data management, video-conferencing and geo-spatial technology. It also offers a unique combination in the direction of cooperative federalism since it brings on one stage the Secretaries of Government of India and the Chief Secretaries of the States.

**20) B**