

Answers

1) C

India Innovation Index 2020

The index ranks the states and union territories based on their relative performance of supporting innovation. This competitive measure will empower them to improve their innovation policies by highlighting their strengths and weaknesses.

The first edition of the index was launched in October 2019. The states and union territories have been ranked on two broad categories: outcome and governance.

Overall, the framework of India Innovation Index 2020 consists of 36 indicators, which include hard data (32 indicators) and four composite indicators.

2) B

Recently, the Ministry of Defence has launched India's first indigenous Machine Pistol, named Asmi. It has been jointly developed by Defence Research & Development Organisation (DRDO) and Indian Army.

It is designed by Infantry School, and DRDO's Armament Research & Development Establishment (ARDE). 3D Printing process has been used in designing and prototyping of various parts of the weapon including trigger components made by metal 3D printing.

It is likely to find huge employability with the central and state police organizations as well as VIP protection duties and Policing.

3) D

The government has nominated 28 non-official members for the National Startup Advisory Council recently.

National Startup Advisory Council

The Department for Promotion of Industry and Internal Trade (DPIIT) had set up the National Startup Advisory Council last year. It seeks to advise the government on measures needed to build an ecosystem for nurturing innovation and startups in the country.

The term of the Non-official members of the Startup Advisory Council shall be for a period of two years. The council is chaired by the Union Minister for Commerce and Industry.

4) D

Indian Railways is not a PSU but is a department of Government of India under a ministry, handled by a minister, elected to Parliament.

Iron-ore is the second most important stream of traffic of Railways and along with steel accounts for nearly 17% (53.81 Million Tonne of Steel & 153.35 Million Tonne of Iron ore) of total 1210 Million Tonne freight loading of IR in 2019-20.

5) C

An initial public offering (IPO) refers to the process of offering shares of a private corporation to the public in a new stock issuance. A company that was privately-owned until then becomes a publicly-traded company.

Securities and Exchange Board of India (SEBI) is a statutory body and a market regulator, which controls the securities market in India. The basic function of SEBI is to protect the interests of investors in securities and to promote and regulate the securities market. Companies must meet requirements by exchanges and the SEBI to hold an initial public offering (IPO).

6) B

The North Eastern Council is the nodal agency for the economic and social development of the North Eastern Region which consists of the eight States of Arunachal Pradesh, Assam, Manipur, Meghalaya, Mizoram, Nagaland, Sikkim and Tripura. The North Eastern Council was constituted in 1971 by an Act of Parliament.
Other zonal councils are set up under the States Re-organisation Act, 1956.

The Union Home Minister is ex-officio Chairman and the MoS(IC) Development of North Eastern Region (DoNER) is the ex-officio Vice-Chairman of the NEC.

7) D

Recently, the Ministry of Earth Sciences has commissioned two of the ten indigenously built Doppler weather radars. The DWR provides detailed information on storm's internal wind flow and structure.

Modern weather radars are mostly pulse-Doppler radars, capable of detecting the motion of rain droplets in addition to the intensity of the precipitation.

Both types of data can be analysed to determine the structure of storms and their potential to cause severe weather. The DWR, can detect Weather phenomenon up to 500 km.

The system installed at a place that receives the highest rainfall in Planet Earth, shall open up tremendous research opportunities in the areas of monsoon dynamics, precipitation characterisation, thunderstorm and hailstorm genesis and evolution, etc. The Doppler weather radars will closely monitor the weather changes over the Himalayas.

8) C

In a move that would effectively help in the smooth formulation of State and National level programs for migrant workers, the Union Ministry of Tribal Affairs (MoTA) is launching Shram Shakti and Shram Saathi.

ShramShakti – It is a National Migration Support Portal.

Shram Saathi – It is a training manual for migrant workers at Goa.

To facilitate and support approximately 4 lakhs migrants who come from different States to Goa, Chief Minister of Goa will also launch dedicated Migration cell in Goa.

MoTA has also sanctioned Tribal research Institute, Tribal Museum, Van Dhan Kendras and Tribal Lok Utsav in Goa.

9) B

It is a large scale joint military exercise involving assets of Indian Army, Indian Navy, Indian Air Force and Indian Coast Guard. It is being conducted under the aegis of the Andaman and Nicobar Command (ANC), the only Joint Forces Command of the country.

The joint force would execute multi domain, high intensity offensive and defensive man oevres in the Andaman Sea and Bay of Bengal and carry out amphibious landing operations, air landed operation, helicopters-borne insertion of Special Forces from sea culminating in tactical follow-on operations on land.

The tri-services exercise aims to fine tune joint war-fighting capabilities and SOPs towards enhancing operational synergy.

10) C

The forest dwellers are legally empowered with the ownership and governance of the minor forest produce through PESA (Panchayat Extension to Scheduled Areas) Act, 1996, and the Forest Rights Act, 2006. The Scheduled Tribes and Other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006, gives the “right of ownership, access to collect, use and dispose of minor forest produce which has been traditionally collected within or outside village boundaries”. Under Forest Rights Act, 2006, “minor forest produce” includes all non-timber forest produce of plant origin including bamboo, brush wood, stumps, cane, tussar, cocoons, honey, wax, lac, tendu or kendu leaves, medicinal plants and herbs, roots, tubers and the like.

The Tribal Cooperative Marketing Development Federation of India (TRIFED) came into existence in 1987. It is a national-level apex organization functioning under the administrative control of Ministry of Tribal Affairs. TRIFED and Indian Farm Forestry Development Co-operative Ltd (IFFDC) have entered into a Memorandum of Understanding (MoU) on January 18, 2021 to work together for tribal livelihood generation.

11) C

Vaccines contain weakened or inactive parts of a particular organism (antigen) that triggers an immune response within the body to produce the pathogen specific antibodies. Newer (DNA/RNA) vaccines contain the blueprint for producing antigens rather than the antigen itself. Regardless of whether the vaccine is made up of the antigen itself or the blueprint so that the body will produce the antigen, this weakened version will not cause the disease in the person receiving the vaccine, but it will prompt their immune system to respond much as it would have on its first reaction to the actual pathogen.

Some vaccines require multiple doses, given weeks or months apart. This is sometimes needed to allow for the production of long-lived antibodies and development of memory cells. In this way, the body is trained to fight the specific disease-causing organism, building up memory of the pathogen so as to rapidly fight it if and when exposed in the future.

12) A**13) C**

An Adverse event following immunization (AEFI) is any untoward medical occurrence which follows immunization and which does not necessarily have a causal relationship with the usage

of the vaccine. The adverse event may be any unfavourable or unintended sign, abnormal laboratory finding, symptom or disease. AEFIs are grouped into five categories:

Vaccine product-related reaction: An AEFI that is caused or precipitated by a vaccine due to one or more of the inherent properties of the vaccine product. Example: Extensive limb swelling following DTP vaccination.

Vaccine quality defect-related reaction: An AEFI that is caused or precipitated by a vaccine that is due to one or more quality defects of the vaccine product including its administration device as provided by the manufacturer. Example: Failure by the manufacturer to completely inactivate a lot of inactivated polio vaccine Inactivated polio vaccine (IPV).

Immunization error-related reaction: An AEFI that is caused by inappropriate vaccine handling, prescribing or administration and thus by its nature is preventable. Example: Transmission of infection by contaminated multidose vial.

Immunization anxiety-related reaction: An AEFI arising from anxiety about the immunization. Example: Vasovagal syncope in an adolescent during/following vaccination.

Coincidental event: An AEFI that is caused by something other than the vaccine product, immunization error or immunization anxiety. Coincidental events reflect the natural occurrence of health problems in the community with common problems being frequently reported.

14) D

Telecom Regulatory Authority of India (TRAI) has recently released the “Indian Telecom Services Performance Indicator Report” for the Quarter ending 30th September, 2020. This Report provides a broad perspective of the Telecom Services in India and presents the key parameters and growth trends of the Telecom Services.

Out of the total subscription, the share of Rural subscription is at 44.87% and Urban subscription is at 55.13%.

Tele density – Number of telephone connections (fixed lines and mobile phone subscribers) per 100 inhabitants within a geographical area.

The overall Tele-density in India also increased from 85.85% as in QE Jun-20 to 86.22% as in QE Sep-20. The Urban Tele-density also increased from 137.35% to 138.25% and the Rural Tele-density remained same i.e. 58.96%, as it was during last quarter June, 2020.

15) D

Though land is a state subject, “acquisition and requisitioning of property” is in the concurrent list. Both Parliament and state legislatures can make laws on this subject.

As per the Jammu & Kashmir Reorganisation Act, 2019; The Legislative Assembly of Union territory of Jammu and Kashmir, the Legislative Assembly may make laws for the whole or any part of the Union territory of Jammu and Kashmir with respect to any of the matters enumerated in the State List except the subjects mentioned at entries 1 and 2, namely “Public Order” and “Police” respectively.

16) D

17) D

The State Bank of India, ICICI Bank and HDFC Bank are the domestic systemically important banks (D-SIBs) or banks that are considered as “too big to fail”. The Reserve Bank had issued the Framework for dealing with Domestic Systemically Important Banks (D-SIBs) on July 22, 2014. The D-SIB framework requires the Reserve Bank to disclose the names of banks designated as D-SIBs starting from 2015 and place these banks in appropriate buckets depending upon their Systemic Importance Scores (SISs). Based on the bucket in which a D-SIB is placed, an additional common equity requirement has to be applied to it.

18) B

The Defence Research and Development Organisation has successfully conducted captive and release trial of indigenously developed Smart Anti-Airfield Weapon (SAAW) from Hawk-I of Hindustan Aeronautics Limited (HAL) off the Odisha coast on 21 January 2021. SAAW is indigenously designed and developed by DRDO’s Research Centre Imarat (RCI) Hyderabad.

This is 125 Kg class smart weapon, capable of engaging ground enemy airfield assets such as radars, bunkers, taxi tracks, and runways etc. up to a range of 100 kms. The high precision guided bomb is light weight as compared to weapon system of the same class. The weapon was earlier successfully test fired from Jaguar aircraft.

19) C

A bulk drug, also called an active pharmaceutical ingredient (API), is the key ingredient of a drug or medicine, which lends it the desired therapeutic effect or produces the intended pharmacological activity.

The Indian pharmaceutical industry is the 3rd largest in the world by volume. It has high market presence in several advanced economies such as the US and EU. The industry is well known for its production of affordable medicines, particularly in the generics space. However, the country is significantly dependent on the import of basic raw materials, viz., Bulk Drugs that are used to produce medicines.

20) B

