

# UPSC and PCS Monthly Current Affairs May 2020

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# Art and Culture

# GI tag to Manipur black rice, Gorakhpur terracotta

#### Why in the news?

• Recently **Chinnaraja G. Naidu**, Deputy Registrar, Geographical Indications, confirmed that the GI tag had been given for the **two-products Manipur black rice** and **Gorakhpur terracotta**.



# **About Manipur black rice**

- It is also known as Chak-Hao (Black Rice).
- It is scented glutinous rice, which has been in **cultivation in Manipur** over centuries, is **characterized by its distinctive aroma.**
- It is usually eaten during community feasts and is served as Chak-Hao kheer.
- Traditional medical practitioners have also used it as part of traditional medicine.
- This rice takes the **longest cooking time of 40-45 minutes** due to the presence of a **fibrous bran layer** and **higher crude fiber content**.

#### **About Gorakhpur terracotta**

- It is a centuries-old traditional art form, where the potters make various animal figures like horses, elephants, camel, goat, and ox with hand-applied ornamentation.
- Some of the major products of craftsmanship include the Hauda elephants, Mahawatdar horse, deer, camel, five-faced Ganesha, singled-faced Ganesha, elephant table, chandeliers, and hanging bells.



#### What is Terracotta?

• It is a type of **ceramic pottery** which is often **used for pipes, bricks, and sculptures**.



- Terracotta pottery is made by baking terracotta clay.
- The terracotta color is a natural brown orange.

#### What is a Geographical Indication?

- A GI or Geographical Indication is a name, or a sign given to certain products that relate to a specific geographical location or origins like a region, town, or country.
- Using Geographical Indications may be regarded as a certification that the particular product is produced as per traditional methods, has certain specific qualities, or has a particular reputation because of its geographical origin.

#### **Benefits of GI Tags**

The **Geographical Indication registration** confers the following benefits:

- Legal protection to the products
- Prevents unauthorized use of GI tag products by others
- It helps consumers to get quality products of desired traits and is assured of authenticity. Promotes the economic prosperity of producers of GI tag goods by enhancing their demand in national and international markets.

# Topic- GS Paper 1-Art and Culture Source- The Hindu

# Kovilpatti Kadalai Mittai and Kashmir saffron gets G.I. tag

# Why in the news?

• Geographical Indication Registry of India has accorded Geographical Indication (G.I.) tag to Kovilpatti Kadalai Mittai and Kashmir saffron.

#### About Kovilpatti Kadalai Mittai

• It is **peanut candy made** in **southern parts of Tamil Nadu.** 



#### **Special Characteristics**

- It is made using all-natural ingredients such as the traditional and special 'vellam' (jaggery) and groundnuts.
- Water from the **river Thamirabarani is used in the production**, which is said to **enhance the taste naturally.**

#### **About Kashmir Saffron:**





- It is cultivated and harvested in the Karewa (highlands) of Jammu and Kashmir.
- It is the only saffron in the **world grown at an altitude of 1,600 m to 1,800m** above mean sea level.
- The unique characteristics of Kashmir saffron are its
- Longer and thicker stigmas
- Natural deep red color
- High aroma
- Bitter flavor
- Chemical-free processing
- **High quantity of crocin** (colouring strength)
- Safranal (flavour)
- **Picrocrocin** (bitterness)

#### Types of the saffron available in Kashmir

# √ Lachha Saffron

• In this stigma just **separated from the flowers** and dried without **further processing.** 

### √ Mongra Saffron

• In this stigma are detached from the flower, dried in the sun, and processed traditionally.

#### √ Guchhi Saffron

• This is the same as Lachha, except that the latter's dried stigmas are packed loosely in air-tight containers while the former has stigmas joined in a bundle tied with a cloth thread.

#### **Historical Background of Saffron**

- Saffron cultivation is believed to have been introduced in Kashmir by Central Asian immigrants around 1st Century BCE.
- In ancient Sanskrit literature, saffron is referred to as 'bahukam.'

## About G.I. tag

• It is primarily an agricultural, natural or a manufactured product (handicrafts and also industrial goods) originating from the definite geographical territory.

#### Significance of a G.I. tag:



- It conveys an assurance of quality and distinctiveness, which is essentially attributable to the place of its origin.
- It is covered as an element of intellectual property rights (IPRs) under the Paris Convention for Protection of Industrial Property.
- G.I. is governed by the WTO's Agreement on the Trade-Related Aspects of an Intellectual Property Rights (TRIPS).
- G.I. are covered under the Paris Convention for the Protection of Industrial Property as an element of IPRs.

# **Topic- GS Paper 1-Art and Culture**

**Source- The Hindu** 

COVID-19: 'Thikri pehra' makes a comeback in Punjab, Haryana

#### Why in the news?

• Indian states Punjab and Haryana have resorted to the age-old practice of thikri pehra — community policing — to curb the movement of people in and out of villages in the wake of the novel coronavirus disease (COVID-19) lockdown.

#### **Background of Thikri pehra'**

• The tradition made a comeback after more than two decades — communities guarded their villages in the aftermath of terrorist movement and when the infamous Kala Kachcha gang gave local's sleepless night's years ago.

#### **Significance**

- Movement for urgent business or supply of essential items is allowed under the practice.
- Local people take turns to guard the entry and exit points in these villages.

# **Topic- GS Paper 1–Art and culture Source- Down to Earth**

#### **Sardar Patel National Unity Award**

#### Why in the news?

• The central government has extended the last date of invitation of nominations for the Sardar Patel National Unity Award till June 30, 2020.



**About the Sardar Patel National Unity Award** 



- The Government of India instituted Sardar Patel National Unity Award as the highest civilian Award in the name of Sardar Vallabhbhai Patel for contribution in promoting unity and integrity of India.
- The Award seeks to recognize the notable and inspiring contribution made by individuals or institutions or organizations in this field and reinforces the value of strong and united India.
- The Award seeks to promote the cause of national unity and integrity and to reinforce the value of a strong and united India. The Award will be announced on the occasion of the National Unity Day, i.e., the birth anniversary of Sardar Patel on October 31.
- The Award shall consist of a medal and a citation.
- No monetary grant or cash award shall be attached to this Award.
- Not more than three Awards shall be given in a year.
- It shall **not be conferred posthumously except in very rare** and highly deserving cases.

Topic- GS Paper 1-Art and Culture Source- The Hindu Bishnu Sendra Parva

#### Why in the news?

• For the first time in living memory, not a single animal was killed on Bishnu Sendra Parva.



#### **About Bishnu Sendra Parva**

- It is an **annual hunting festival observed by tribals of Jharkhand** and the neighboring **Odisha and West Bengal**.
- Adivasis observed the centuries-old festival without leaving their houses as Jharkhand continued with a complete lockdown across the state.
- With the lockdown continuing, many tribal hunters could not reach the forests to observe the festival.

Topic- GS Paper 1-Art and Culture Source- TOI
Pulitzer Prize 2020

Why in the news?



• Recently, five **Indian Photographers** were among the **winners of the 2020 Pulitzer Prize**.



#### **Highlights of Prize distribution**

- The three photographers from Andhra Pradesh, Mukhtar Khan, Dar Yasin, and Channi Anand, were recognized for their work in the Feature Photography category, for their "striking images on life" in Jammu and Kashmir after the state's special status was revoked.
- The Reuters' photographers Anushree Fadnavis and Adnan Abidi were awarded the Pulitzer in the Breaking News Photography category for their coverage of the citizens' protests that rocked Hong Kong in 2019. About Pulitzer Prize
- It is an award given for achievements in newspaper, magazine and online journalism, literature, and musical composition in the United States.
- It was established in the year of 1917 by provisions in the will of Joseph Pulitzer.
- Each winner receives a certificate and a US\$15,000 cash award.
- The winner in the **public service category** is awarded a **gold medal**.

**Topic- GS Paper 1-Art and Culture Source- The Hindu** 

#### **VESAK**

#### Why in the news?

• 'Vesak,' the Day of the Full Moon in May, is being observed by the United Nations on May 7, 2020.



## **About Vesak**



• Vesak is the most sacred day for Buddhists around the world, which is also known as Buddha Purnima and Buddha Day.

#### Significance:

• The day commemorates birth, enlightenment, and Death (or Parinirvana) of Lord Buddha, the founder of Buddhism, all of which is said to take, have taken place on the same day.

#### **Recognition by United Nations**

• The **General Assembly**, by its **resolution in 1999**, recognized **the Day of Vesak internationally**. It was done to **acknowledge the contribution that Buddhism made to humanity**.

# **Topic- GS Paper 1-Art and Culture Source- The Hindu**

# Gandhi Peace Prize 2020

#### Manuali Peace Filze 2

## Why in the news?

• Amid the coronavirus outbreak and nationwide lockdown, the Ministry of Culture has extended the last date for receipt of nominations for the Gandhi Peace Prize 2020 has now been extended upto and including 15.6.2020.

#### **About the Gandhi Peace Prize**

- It was institutionalized in 1995 on the 125th birth anniversary of Mahatma Gandhi.
- It is an annual award given to individuals and institutions for their contributions towards social, economic, and political transformation through non-violence and other Gandhian methods.
- It carries a cash prize of Rs 1 crore, a citation, and a Plaque as well as an exquisite traditional handicraft/handloom item.

#### **Selection Committee**

A jury consisting of the

- 1. Prime Minister of India
- 2. The Leader of the Opposition in the Lok Sabha
- 3. the Chief Justice of India, Speaker of the Lok Sabha and
- 4. One eminent person.

#### **Previous awardee**

- Ramakrishna Mission was the first institution and Baba Amte was the first Indian person to receive Gandhi Peace Prize in 1998 and 1999 respectively.
- Julius K Nyerere, former Tanzanian President, was the first recipient of the award in 1995.

# Topic- GS Paper 1-Art and Culture Source- The Hindu

# GI tag for Jharkhand's Sohrai Khovar painting and Telangana's Telia Rumal

#### Why is in the news?

• Recently **Jharkhand's Sohrai Khovar painting** and **Telangana's Telia Rumal** were given the Geographical Indication (GI) tag by the Geographical Indications Registry.

# **About Jharkhand's Sohrai Khovar painting**

• The Sohrai Khovar painting is a traditional and ritualistic mural art being practised by local tribal women during local harvest and marriage seasons using local, naturally available soils of different colours in the area of Hazaribagh district of Jharkhand.





#### **Features**

- It is **traditionally painted on the walls of mud houses**; they are now seen on other surfaces, too.
- The style features a **profusion of lines, dots, animal figures and plants,** often representing **religious iconography**.
- In recent years, the walls of important public places in Jharkhand, such as the Birsa Munda Airport in Ranchi, and the Hazaribagh and Tatanagar Railway Stations, among others, have been decorated with Sohrai-Khovar paintings.

#### **About Telia Rumal cloth**

• It involves **intricate handmade work with cotton loom** displaying a variety of designs and motifs in three colours — **red, black, and white.** 

#### **Features**

• It can only be **created using the traditional handloom** process and not by any other **mechanical means as otherwise**, the very **quality of the Rumal** would be lost.



#### **Geographical Indication Status**

• It is an indication used to **identify goods having unique characteristics** originating from a **definite geographical territory**.



- The Geographical Indications of Goods (Registration and Protection) Act, 1999 seeks to provide for the registration and better protection of geographical indications relating to goods in India.
- The Act is administered by the Controller General of Patents, Designs and Trademarks- who is the Registrar of Geographical Indications.
- The **Geographical Indications Registry** is located at Chennai.

#### **Time Period**

- The registration of a geographical indication is valid for ten years. It can be renewed from time to time for a further period of 10 years each.
- It is also a part of the World Trade Organization's Trade-Related Aspects of Intellectual Property Rights (TRIPS).

**Topic- GS Paper 1-Art and Culture Source- The Hindu** 

#### **Gangamma Jatra**

Why in the news?

Amid the coronavirus outbreak and nationwide lockdown the

• Gangamma Jatra has been missed devotees from across Rayalaseema and the bordering districts of Tamil Nadu and Karnataka.



# **About Gangamma Jatara**

- It is an annual folk festival and a famous religious temple carnival in Tirupati, Andhra Pradesh.
- This festival is to offer prayers to Sri Thathaya Gunta Gangamma, the Gramadevata (the goddess looking after the village) of Tirupati.
- During the celebrations of Gangamma Jatara, the people wear Vichitra Veshadarana and curse Goddess Gangamma for seven days.
- It is celebrated through the dancing of youth in symmetry to the beating of 'Palakalu' in rustic rhythm, the smearing of charcoal, kumkum and chalk powder all over the body and the dressing of men in glittering female attire used to be the flavour of the season.



# **Topic- GS Paper 1-Art and Culture Source- TOI**

# GI tag for Thanjavur Netti Works, Arumbavur Wood Carvings Why in the news?

The Geographical Indications Registry has given the Thanjavur Netti Works and Arumbavur wood carvings Geographical Indication (GI) tag **in Chennai.** 

#### **About Thanjavur Netti Works (Thanjavur Pith Work)**

- It is made from Netti (pith) from a marshy plant called as Aeschynomene Aspera.
- This is a traditional art form and has been transferred from one generation to the next.
- The pith work models are delicate to handle and are usually preserved inside glass boxes.
- The notable works include Brihadeeswara Temple, Hindu Idols, door hangings and decorative pieces.
- The government has also **recognised the pith work industry** as one of the **major handicraft symbols.**



#### **About Arumbavur Wood Carving**

- These are the sculptures primarily made out of the wooden logs of Mango, Lingam tree, Indian Ash tree, Rosewood, Neem tree.
- The wood supply comes from the Pachamalai Hills along the Trichy Perambalur boundary and the Thanjavur Kumbakonam zone.

#### Characteristic

- Its work revolves around idols and deities, temple chariots and temple cars, door panels of houses, pooja rooms and temples, decorative figures and pooja mandapam.
- The entire design carved is made out of a single block of wood given that a single error could damage the entire piece.

#### **About Geographical Indication tag**



- It is a sign used on products that have a **specific geographical origin and possess qualities or a reputation** by virtue of their **geographical association**.
- The **tag conveys an assurance of quality and distinctiveness**, which is essentially attributable to the geographical origin of the product.
- The owner of the GI tag has exclusive rights over the product.

**Topic- GS Paper 1-Art and Culture Source- AIR** 

# Centre launches scheme to solarise entire Konark Temple, Konark town

Why is in the news?

• The Government of India has recently launched a scheme for 100 per cent solarisation of Konark sun temple and Konark town.



# **About the Scheme**

- The scheme envisages setting up of the 10-MW grid-connected solar project and various solar off-grid applications such as solar trees, solar drinking water kiosks and off-grid solar power plants with battery storage. The implementation of this project will be done by the Odisha Renewable Energy Development Agency.
- The Ministry of New and Renewable Energy (MNRE) has taken up the complete solarisation of Konark Sun Temple and Konark town in Odisha.
- The scheme will meet all the **energy requirements of Konark town** with solar energy.

#### **About the Ministry of New and Renewable Energy**

- It is a ministry of the Government of India that is mainly responsible for research and development, intellectual property protection, and international cooperation, promotion, and coordination in renewable energy sources such as wind power, small hydro, biogas, and solar power.
- The **broad aim of the ministry** is to **develop and deploy new and renewable energy** for **supplementing the energy requirements of India**.

  Mission

# The Mission of the Ministry is to ensure

a. **Energy Security**: Lesser dependence on oil imports through development and deployment of alternative fuels (hydrogen, biofuels and synthetic fuels) and their applications to contribute towards bridging the gap between domestic oil supply and demand;



- b. **Increase in the share of clean power**: Renewable (bio, wind, hydro, solar, geothermal & tidal) electricity to supplement fossil fuel-based electricity generation;
- c. **Energy Availability and Access**: Supplement energy needs of cooking, heating, motive power and captive generation in rural, urban, industrial and commercial sectors.
- d. **Energy Affordability**: Cost-competitive, convenient, safe, and reliable new and renewable energy supply options; and
- e. **Energy Equity:** Per-capita energy consumption at par with the global average level by 2050, through a sustainable and diverse fuel- mix.



# **About Konark Sun Temple**

- Konark Sun Temple (Surya Mandira) is a 13th-century CE Sun Temple at Konark on the coastline of Odisha, India.
- The **temple** is attributed to king Narasimhadeva I of the **Eastern Ganga Dynasty** about 1250 CE.

Topic- GS Paper 1-Art and Culture Source- PIB

# Manipur's 'khudol' (gift), an initiative of LGBTQI

Why in the news?

• The United Nations Secretary-General's Envoy on Youth has recently listed Manipur's 'khudol' (gift) among the top 10 global initiatives for an inclusive fight against the COVID-19 pandemic.



#### **About Khudol**

• It is a crowdfunded initiative of Ya\_All, an Imphal-based NGO.



• The initiative entails **ensuring food supplies and health services** for the **people living with HIV**, **daily-wage earners**, **LGBTQI+ community** (lesbian, gay, bisexual, and transgender) **children and adolescents**.

## **Key highlights**

- Manipur has been more accommodative to the transgender community than other States during COVID-19 pandemic lockdown.
- It was considered prudent to open separate quarantine centres for the transgender people to ensure their emotional security during the current pandemic.
- Ya\_All created a model of an inclusive, safe space for transgender returnees. It teamed up with the local Tangmeiband United Club and Imphal West district administration to set provide separate rooms and toilets for transgender persons besides a ramp for the differently abled at a quarantine centre in Imphal's DM College of Teacher's Education.

# **Topic- GS Paper 1-Art and Culture, GS Paper 2-Governance Source- The Hindu**

#### Kangra Tea

Why is in the news?

• Kangra tea has been recently marked as a potential coronavirus blocker after the well-known herb Ashwagandha.



#### **About Kangra Tea**

- It is a tea from the Kangra district in Himachal Pradesh.
- Kangra Tea is grown at a height ranging from 900 metres to 1400 metres above the sea level.
- It is known for its unique colour and flavour due to which it got Geographical Indication status in 2005.

# **Medicinal Properties**

- It will be able to **boost immunity against coronavirus** by blocking the **virus** activity better than the anti-HIV drugs currently being used as preventive care for patients and health care professionals.
- The Indian Council of Medical Research (ICMR) is likely to replace hydroxychloroquine (HCQ) with anti-HIV drugs to improve immunity and possibly reduce viral replication, in the revised protocol.
- As per the webinar organized on the occasion of the International Tea Day at Institute of Himalayan Bioresource Technology (IHBT), based in Palampur, Himachal



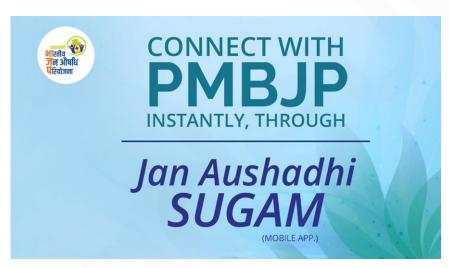
Pradesh, it was highlighted that the **chemicals in Kangra tea** could also be **effective in boosting immunity** as they can **block coronavirus activity better than anti-HIV drugs.** 

**Topic- GS Paper 1-Art and Culture Source- AIR** 

Polity and Governance
"Janaushadhi Sugam" Mobile App

#### Why in the news?

• Amid nationwide lockdown, due to the COVID-19 crisis, Janaushadhi Sugam Mobile App is helping people in a big way to locate their nearest Pradhan Mantri Bharatiya Janaushadhi Kendra.



# About Janaushadhi Sugam" Mobile App

- This mobile application has been developed by the Bureau of Pharma PSUs of India (BPPI) under the Department of Pharmaceuticals, Ministry of Chemicals and Fertilizers, Government of India.
- The **app will facilitate the general public** by providing **a digital platform** at the tip of their fingers, under which
- they can avail a host of user-friendly options like locating nearby Janaushadhi Kendra,
- direction guided through Google Map for the location of the Janaushadhi Kendra, search Janaushadhi generic medicines,
- analyze product comparison of Generic and Branded medicine in the form of MRP & overall Savings, etc.

## About Pradhan Mantri Bhartiya Janaushadhi Pariyojana

- It is a campaign launched by the Department of Pharmaceuticals to provide quality medicines at affordable prices to the masses through special Kendra's known as Pradhan Mantri Bhartiya Jan Aushadhi Kendra.
- Pradhan Mantri Bhartiya Jan Aushadhi Kendra has been set up to **provide generic** drugs, which are available at lesser prices but are equivalent in quality and efficacy as expensive branded drugs.

#### Implementing agency

• Bureau of Pharma PSUs of India (BPPI) is the implementing agency of PMBJP.



• BPPI (Bureau of Pharma Public Sector Undertakings of India) has been **established under the Department of Pharmaceuticals**.

#### Salient Features of the scheme:

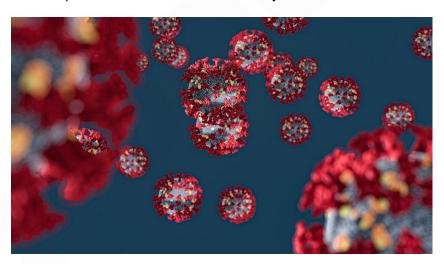
- Ensure access to quality medicines.
- Extend coverage of quality generic medicines to reduce the out of pocket expenditure on medicines and thereby redefine the unit cost of treatment per person.
- Create awareness about generic medicines through education and publicity so that quality is not synonymous with an only high price.
- A **public program** involving Government, PSUs, Private Sector, NGO, Societies, Cooperative Bodies, and other Institutions.
- Create demand for generic medicines by improving access to better healthcare through low treatment costs and easy availability wherever needed in all therapeutic categories.

# **Topic- GS Paper 2-Governance Source- PIB**

Mathematical Research Impact Centric Support (MATRICS) Scheme

#### Why in the News?

• Recently the Science and Engineering Research Board (SERB) has approved funding for 11 projects under MATRICS scheme for studying Mathematical modeling and computational aspects to tackle the COVID 19 pandemic.



#### About Mathematical Research Impact Centric Support (MATRICS) Scheme

- It was launched in 2017 by Science and Engineering Research Board (SERB).
- It aims to provide fixed grant support to active researchers with good credentials in Mathematical Sciences.
- The main attribute of this scheme would be the submission of a simple one or two-page mathematical proposal along with curriculum vitae.

#### Eliaibility

- The applicant should be an active researcher in the field of
- a. Mathematical Sciences and allied areas.
- b. Science and Engineering (excluding mathematical sciences) or
- c. Social Sciences involving quantitative analysis using mathematical, statistical, and computational techniques.



- The applicant should hold a **Ph.D. or M.D. / M.S. / M.D.S. / M.V. Sc degree** and must be **working regularly** in **academic institutions/national labs** or **any other recognized R&D institutions.**
- The applicant should have at least four years of service remaining before superannuation as on the date of submission of the proposal.

# **About the Science and Engineering Research Board (SERB)**

- It is a statutory body under the Department of Science & Technology.
- It was established under the **Science and Engineering Research Board Act, 2008. Objective**
- Its objective is to promote basic research in Science and Engineering and to provide financial assistance to persons engaged in such research, academic institutions, research and development laboratories, etc.
- It aims to **build up the best management systems** which would match the **best global practices** in the **area of promotion and funding of basic research**.

**Topic- GS Paper 2-Governance Source- PIB** 

Kisan Sabha App: To Connect Farmers to Supply Chain and Freight Transportation

#### Why in the news?

• CSIR-Central Road Research Institute (CSIR-CRRI), New Delhi, has recently developed the Kisan Sabha App, which connects farmers to the supply chain and freight transportation management system.

#### **About the Kisan Sabha App**

- Kisan Sabha aims to provide the most economical and timely logistics support to the farmers.
- The goal of the app is to increase farmers' profit margins by minimizing the interference of middlemen and directly connecting with the institutional buyers.

#### **Function**

- It acts as a single stop for every entity related to agriculture, be they a farmer who needs better price for the crops or mandi dealer who wants to connect to more farmers or truckers who invariably go empty from the mandis.
- It will also help in **providing the best market rates of crops** by comparing **the nearest mandis, booking of freight vehicles at the cheapest cost**.

# Kisan Sabha has six major modules taking care of:

- Farmers
- Mandi Dealers
- Transporters
- Mandi Board Members
- Service Providers
- Consumers.

**Topic- GS Paper 2-Governance Source- PIB** 

Centre to expand Jal Shakti Abhiyan activities during the upcoming monsoon

Why in the news?



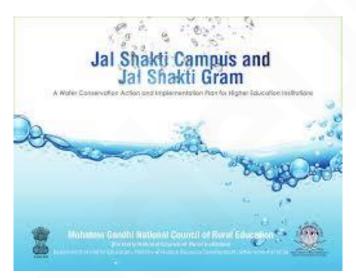
• The Centre has recently decided to utilize the forthcoming monsoon season to expand its water conservation efforts under the National Jal Shakti Abhiyan.

#### **About Jal Shakti Abhiyan**

- It was launched in 2019.
- It is a time-bound campaign with a mission mode approach intended to improve water availability including groundwater conditions in the water-stressed blocks of 256 districts in India

#### **Objective**

• To make water conservation and promotion of irrigation efficiency, a Jan Andolan (public campaign) through asset creation and communication campaigns in rural India.



#### **Implementation**

• It is a collaborative effort of various Ministries of the Government of India and State Governments being coordinated by the Department of Drinking Water and Sanitation, Ministry of Jal Shakti.

#### **Intervention areas**

- 1. Water conservation and rainwater harvesting
- 2. Renovation of water bodies
- 3. Renovation of bore well recharge structures
- 4. Watershed development and
- 5. Intensive afforestation

**Topic- GS Paper 2-Governance Source- Business standard** 

#### "The Saras Collection"

#### Why in the news?

• The Union Minister for Rural Development and Panchayati Raj and Agriculture and Farmers' Welfare has launched "The Saras Collection" on the Government e-Marketplace (GeM) portal.

#### **About the Saras Collection**



- It is a unique initiative of GeM and the DeenDayalAntyodaya Yojana-National Rural Livelihoods Mission (DAY-NRLM), Ministry of Rural Development, the Saras Collection showcases daily utility products made by rural self-help groups (SHGs).
- It aims to provide SHGs in rural areas with market access to Central and State Government buyers.



Under this initiative, the **SHG sellers** will be **able to list their products** in **5 product categories**, namely

- a. handicrafts.
- b. handloom and textiles,
- c. office accessories grocery and pantry
- d. personal care and hygiene.

# About Deen Dayal Antyodaya Yojana-National Rural Livelihoods Mission (DAY-NRLM)

- It was launched by the Ministry of Rural Development (MoRD), Government of India, in June 2011 with the name Aajeevika National Rural Livelihoods Mission (NRLM).
- In November 2015, the program was renamed Deendayal Antyodaya Yojana (DAY-NRLM)
- It aims to reduce poverty through the promotion of diversified and gainful selfemployment while creating skilled wage employment opportunities.
- The scheme supports building social capital and ensuring financial linkages to alleviate poverty and enhance the quality of the life of rural poor women.
- It has ambitious plans on innovations for alternate channels of financial inclusion like digital finance, creating value chains around rural products and improving market access, rural enterprise, and strengthening community institutions.

# **About Government e-Marketplace (GeM)**

- It is a **100 percent Government** owned **Section 8 Company** set up as the **National Public Procurement Portal** for **procurement of goods and services** required by **Central and State Government organizations**.
- GeM provides an online, end to end solution for procurement of goods and services for all Central Government and State Government Ministries, Departments, Public Sector Enterprises (PSEs), local bodies and autonomous organizations.



• The platform reduces human interventions in procurement and enables transparency, cost savings, inclusiveness, and efficiency of faceless standardized public procurement.

**Topic- GS Paper 2-Governance Source- PIB** 

**Non-Aligned Movement Summit** 

#### Why in the news?

- Prime Minister has recently participated in the Virtual Non-Aligned Movement (NAM) Summit through Video Conferencing on May 4, 2020.
- The summit will discuss the enhanced coordination of the member states in their fight against the coronavirus pandemic.



#### **About the Non-Aligned Movement**

- It is a **forum of 120 developing world states** that are not formally aligned with or against any major power bloc.
- NAM represents the most significant grouping of countries outside the United Nations, comprising 120 developing countries from Asia, Africa, and Latin America.
- It was drawing on the principles agreed at the Bandung Conference in 1955.
- The Movement of Non-Aligned Countries was founded on a wider geographical basis at the First Summit Conference of Belgrade, which was held on September 1-6, 1961.
- India is one of the founding members of the Non-Aligned Movement (NAM), which was established in 1961 with 29 members.

#### On what Principles does NAM work?

• J.L. Nehru has described the five pillars to be used as a guide for Sino-Indian relations called Panchsheel (five restraints), these principles would later serve as the basis of the Non-Aligned Movement.

The five principles were:

- Mutual respect for each other's territorial integrity and sovereignty
- Mutual non-aggression
- Mutual non-interference in domestic affairs
- Equality and mutual benefit
- Peaceful co-existence

**Topic- GS Paper 2-Governance Source- AIR** 



#### **Jharkhand launches schemes for job creation**

#### Why in the news?

Faced with the possibility of a steep rise in the rate of unemployment in villages following the arrival of large-scale stranded migrant workers from other States, the Jharkhand government has launched three labour intensive programs to restore the rural economy.

These scheme are:

- a. Birsa Harit Gram Yojana (BHGY)
- b. Neelambar Pitambar JAL Sammridhi Yojana (NPJSY)
- c. Veer Sahid Poto Ho Khel Vikas Scheme (VSPHKVS)



#### **About Birsa Harit Gram Yojana**

- The BHGY is **envisaged at bringing over two lakh acres** of **unused government fallow land** under the **afforestation program**
- About five lakh families will be provided 100 fruit-bearing plants.
- The **initial plantation, maintenance**, **land work**, and **afforestation** will be taken up **through MNREGA**.

#### **About Neelambar Pitambar JAL Sammridhi Yojana**

• As per NPJSY, the government is **aiming at creating agro-water storage** units by **arresting rainwater and runaway groundwater.** 

#### About Veer Sahid Poto Ho Khel Vikas Scheme (VSPHKVS)

- Under VSPHKVS, as many as **5,000 sports grounds** will be **developed across the**State
- The government hopes to generate one crore person days through the scheme in the current financial year.

Topic- GS Paper 2-Governance Source- The Hindu Operation Samudra Setu

Why in the news?



• Recently Indian Navy has launched Operation "Samudra Setu" - meaning "Sea Bridge," as a part of national effort to repatriate Indian citizens from overseas.



# **About Operation Samudra Setu**

- This operation is being progressed in close coordination with Ministries of Defence, External Affairs, Home Affairs, Health, and various other agencies of the Government of India and State governments. Indian Naval Ships Jalashwa and Magar are presently en-route to the port of Malè, the Republic of Maldives, to commence evacuation operations.
- In view of the **unique challenges associated with COVID-19 stringent protocols** have also been stipulated.
- The evacuated personnel will be **disembarked at Kochi, Kerala,** and entrusted to the care of State authorities.
- The **Indian Mission in the Republic of Maldives** is preparing a list of Indian nationals to be **evacuated by naval ships** and will facilitate their embarkation after the requisite medical screening.

Topic- GS Paper 2-Governance Source- The Hindu SUPRA and IRHPA Programme

#### Why in the news?

• Recently Professor Ashutosh Sharma said on the occasion of its 50th Foundation Day of Department of Science and Technology, spoke about Intensification of Research in High Priority Areas (IRHPA) and Scientific and Useful Profound Research and Advancement (SUPRA) program.

#### About Intensification of Research in High Priority Areas (IRHPA)

- It is a program of **Science and Engineering Research Board (SERB).** It supports proposals in **high priority areas** where **multi-disciplinary/multi-institutional expertise** is required, which will put our nation in **an international science map** in that particular discipline.
- It is **designed to provide major conscious support** to very few selected areas of research that have **high priority** from the viewpoint of **advances in fundamental science**, and that can be of great significance for **scientific and technological development of the country.**



- Under the **IRHPA** scheme, a unit or core group having super specialization in the relevant areas of science will be developed and further nurtured.
- Scientists from Universities, their affiliated Colleges, IITs, IISc., and other Autonomous Research Institutions, along with scientists working in the industrial R&D sector in India, can submit a proposal under this scheme.

#### About Scientific and Useful Profound Research and Advancement

- It is also a program of Science and Engineering Research Board (SERB).
- **SERB-SUPRA** is a scheme beyond normal core grants and purposefully designed for high-quality proposals consisting of **new hypothesis or challenge existing ones** and provide **'out-of-box' solutions.**
- Transformative and disruptive research concepts based on innovative and unproven hypotheses, possessing a high degree of uncertainty, yet having the conviction to produce a lasting impact across discipline boundaries qualify for support under SERB-SUPRA.
- The submissions under SERB-SUPRA can only be made against the call for proposals, with a public announcement through the SERB online portal and social media.

#### **Funding**

• The funding will be provided generally for a period of three years, which could be extended to 2 years (5 years total) as assessed by an expert committee.

# About the Department of Science and Technology (India)

- The **Department of Science and Technology (DST)** is a department within the **Ministry of Science and Technology in India.**
- It was **established in May 1971** to promote **new areas of science and technology** and to **play the role of a nodal department** for organizing, coordinating, and promoting **Scientific and Technological activities** in the country.
- It gives funds to various approved scientific projects in India.
- It also **supports various researchers in India** to attend conferences abroad and to go for experimental works.
- DST **supports open access to scientific knowledge**, originated from the public-funded research in India.
- In December 2014, the **DST** and the **Department** of **Biotechnology** (**DBT**), Government of India, had jointly adopted their **Open Access Policy**.

# **Topic- GS Paper 2-Governance Source- PIB**

Government panel suggests setting up apex land management body

#### Why in the news?

• A government panel on **boosting infrastructure investment** has recently recommended setting up a **National Land Management Corporation**, which would help in **monetizing state-owned surplus land assets**.

#### **Key highlights of the recommendations**

- National Land Management Corporation should be set up under the Companies Act to function as the facilitator for land monetization.
- It can be the **asset manager for lands owned by the government of India** and **Central Public Sector Enterprises**.

#### Composition:



- The government panel has recommended that a chief executive officer and a technical team be hired at market-linked compensation to carry out land monetization. Apart from a CEO and technical team, it has been proposed that the Corporation have representation from senior officials of
- a. The Finance Ministry
- b. Department of Public Enterprises,
- c. Ministry of Housing and Urban Affairs and
- d. Independent directors from the finance and real estate industry.

#### **Functions**

- Legal management of litigation/encumbrances relating to land development planning,
- **Design and bid process** management.
- Besides maintaining an inventory of public land, the Corporation will develop:
- Model concession agreements for land development and sale,
- Operational requirements like a change of land usage and revenue management functions will also be entrusted with the Corporation.

#### Raising capital:

- The Corporation can raise capital from the equity market, based on the value of its leased assets.
- This recommendation is similar to some **private-owned Real Estate Investment Trusts (REITs),** which were **listed on the stock exchanges** last year.

Topic- GS Paper 2-Governance Source- Indian Express GARUD portal

# Why in the news?

• Civil Aviation Ministry and DGCA have recently launched the GARUD portal for providing fast track conditional exemptions to government agencies for COVID-19 related drone operations.



#### **About the Garud Portal**

- GARUD is an acronym for 'Government Authorisation for Relief Using Drones'.
- It is designed and developed by the Directorate General of Civil Aviation (DGCA). It is launched for providing fast track conditional exemptions to government agencies for COVID-19 related drone operations.



Topic- GS Paper 2-Governance Source- PIB Vande Bharat Mission

#### Why in the news?

• The government of India has launched the Vande Bharat Mission to bring back Indian nationals stranded abroad due to the coronavirus lockdown.



#### **About Vande Bharat Mission**

• It is a **multi-agency mission** that will see the **operation of 64 flights** to bring back **Indian nationals from Gulf countries, the US, the UK**, among other nations. **Note:** 

Once completed, it may turn out to be the **largest evacuation operation** since the 1990 **airlift of 1.7 lakh people from Kuwait.** 

#### **Other Mission**

- ✓ Operation Samudra Setu (Sea Bridge)
- It is an operation of the Indian Navy to repatriate Indian citizens from overseas with the coordination between the Ministries of Defence, External Affairs, Home Affairs, Health, and various other agencies of the Government of India and State governments.
- Indian Naval Ships (INS) Jalashwa and Magar are presently en route to the Maldives to commence evacuation operations as part of Phase-1.

**Topic- GS Paper 2-Governance** 

Source- AIR

#### 'AYUSH Sanjivani' App

#### Why in the news?

Union Health & Family Welfare Minister has recently launched the 'AYUSH Sanjivani' App through Video Conferencing from Goa.





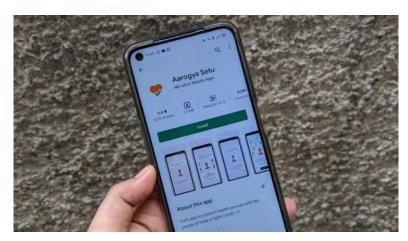
# About the 'AYUSH Sanjivani' App

- It is developed by the Ministry of AYUSH and Electronics and Information Technology Ministry (MeitY).
- It will help to generate data on acceptance and usage of AYUSH advocacies and measures among the population and its impact on the prevention of COVID 19.
- It has provided a **potent platform for an alliance between MoHFW, MoAYUSH**, and technology organizations such as **CSIR, ICMR, and UGC** to not only **develop AYUSH interventions and solutions.**
- It also helps in **promoting AYUSH knowledge** for the larger good of the **global** community.

Topic- GS Paper 2-Health Issue Source- PIB Aarogya Setu IVRS services

#### Why in the news?

Recently, the Ministry of Health & Family Welfare has launched the 'Aarogya Setu Interactive Voice Response System' (IVRS).



About Aarogya Setu Interactive Voice Response System.

• It has been **implemented to include those citizens** who are having **feature phones** and landline connections.



- It is a **toll-free service**, **available across the country**, wherein citizens can give a missed call to the **number '1921**,' and they will get a **call back requesting for inputs regarding their health**.
- The questions asked are aligned with Aarogya Setu App, and based on the responses given, citizens will also get an SMS indicating their health status and further alerts for improving their health.
- The toll-free service is implemented in 11 regional languages, similar to the mobile application.

#### **About the Aarogya Setu Mobile App**

- It is developed by the Ministry of Electronics and Information Technology.
- It enables people to assess themselves the risk of their catching the Corona Virus infection.
- It will calculate this based on their interaction with others, using cutting edge Bluetooth technology, algorithms, and artificial intelligence.
- This is designed to keep a user informed, in case she/he crosses paths with someone who has tested positive.

Topic- GS Paper 2- Governance Source- The Hindu Modifications in PMRF Scheme

#### Why in the news?

• Recently, the Union Minister of Human Resource Department (HRD) has announced various amendments under Prime Minister's Research Fellows (PMRF) Scheme to boost research in the country.



#### What are those amendments?

The Minister informed that now there will be **two channels of entries**, **one direct entry**, **and lateral entry**.

- a. Application through Direct Entry channel
- In the **preceding three years**, the candidate should have either:
- Completed or be pursuing the final year of Bachelor or Master's degree in Science and Technology streams from any of the Institute/University recognized in India with CGPA of 8.0 or above and GATE score of 650 or above in the relevant subject.



- Qualified GATE and completed or be pursuing M.Tech./MS by research at one of the PMRF Granting Institutes having a minimum CGPA of 8.0 or above at the end of the first semester with a minimum of four courses.
- The PMRF granting institute, which has admitted the student in the Ph.D. program through the regular selection process (interview), makes a strong recommendation for the award of PMRF in view of his/her merit.

#### b. Application through Lateral Entry Channel

To apply for PMRF through this channel, the candidate must satisfy all of the following criteria:

- The candidate should be pursuing a Ph.D. in one of the PMRF granting institutions.
- Further, he/she should have **completed at most 12 months in the Ph.D. program** if he/she joined the program with a **Master's degree**; and should have completed at most **24 months in the Ph.D. program** if he/she joined the **Ph.D. program with a Bachelor's degree.**
- He/she should have completed at least four courses in the **Ph.D. program with CGPA** / **CPI of 8.5 or above.**
- The **PMRF Granting Institute**, in which the student is enrolled, makes a strong recommendation for the candidate and uploads the relevant information on the **PMRF web-portal**, in view of **his/her merit demonstrated** during the first **12-24 months** (as relevant) of the program;
- The metrics on which the **candidates will be judged** include (but not restricted to) a **strong research proposal, publications record, and grades**

## **About Prime Minister's Research Fellows (PMRF) Scheme**

- It was announced in the Budget 2018-19.
- It has been designed for improving the quality of research in various higher educational institutions in the country.
- It seeks to attract the best **talent into research**, thereby realizing the **vision of development through innovation**.

#### Note:

• The PMRF granting institutes are IISc. Bengaluru, All IISERs, All IITs, Jawaharlal Nehru University, Banaras Hindu University, University of Hyderabad, Aligarh Muslim University, Jamia Millia Islamia, University of Delhi and National Institute of Technology, Tiruchirappalli.

**Topic- GS Paper 3-Education Source- PIB** 

#### The safeguards available against chemical disasters in India

## Why in the news?

- A gas leak from LG Polymers factory situated on the outskirts of Visakhapatnam, Andhra Pradesh, recently killed at least 11 people.
- The laws aiming to protect the victims of such chemical disasters in India are as follows:

# a. Bhopal Gas Leak (Processing of Claims) Act, 1985

- It gives powers to the central government to secure the claims arising out of or connected with the Bhopal gas tragedy.
- Under the provisions of this Act, such claims are dealt with speedily and equitably.
- b. The Environment Protection Act, 1986



• This act powers to the central government to undertake measures for improving the environment and set standards and inspect industrial units.

## c. The Public Liability Insurance Act, 1991

• This Act is an insurance meant to provide relief to persons affected by accidents that occur while handling hazardous substances.

# d. The National Environment Appellate Authority Act, 1997

• Under this Act, the National Environment Appellate Authority can hear appeals regarding the restriction of areas in which any industries, operations or processes or class of industries, operations or processes shall not be carried out or shall be carried out subject to certain safeguards under the Environment (Protection) Act, 1986.

# e. National Green Tribunal, 2010

• It provides for the establishment of a National Green Tribunal for effective and expeditious disposal of cases related to environmental protection and conservation of forests.

**Topic- GS Paper 2-Governance** 

**Source- Indian Express** 

Sample Registration System (SRS) bulletin

#### Why in the news?

• The Registrar General of India has recently released its Sample Registration System (SRS) bulletin based on data collected for 2018.



# About Sample Registration System (SRS) bulletin

- It was initiated on a pilot basis by the **Registrar General of India** in a **few states in 1964-65**.
- It became fully operational during 1969-70.
- It is a **demographic survey** for **providing reliable annual estimates** at the national and sub-national levels of:
- a. infant mortality rate
- b. birth rate
- c. death rate
- d. Other fertility and mortality indicators **Key findings of the bulletin Infant mortality rate (IMR)**
- The **national IMR in 2018** stood at **32 per one thousand** of the population.
- The IMR at an all-India level has declined from 50 to 32 in the last decade.
- Mizoram has registered a 10 per cent drop in Infant Mortality Rate (IMR) in 2019-20 fiscal, making it to the second spot in the country after Nagaland.
- Madhya Pradesh has an IMR of 48 and Nagaland 4.

**Birth rate** 



- The **birth rate** is a **crude measure of fertility** of a population and a **crucial determinant** of population growth.
- The rates are calculated per one thousand of the population.
- The national birth rate in 2018 stood at 20 per one thousand of the population.
- Bihar has the **highest birth rate at 26.2**, whereas the **Andaman and Nicobar Islands** are at the **bottom with a birth rate of 11.2**.
- At an all-India level, the birth rate is higher in rural areas (21.6) compared to urban areas (16.7).

#### **Death Rate**

- The national death rate in 2018 stood at 6.2 per one thousand of the population.
- The death rate of India has witnessed a significant decline over the last four decades from 14.9 in 1971 to 6.2 in 2018.
- The decline has been steeper in rural areas.
- The corresponding decline in rural areas is 7.8 to 6.7 and in urban areas, 5.8 to 5.1.
- Chhattisgarh has the highest death rate at eight, whereas Delhi has a rate of 3.3, indicating better healthcare facilities.

**Topic- GS Paper 2-Governance** 

**Source-Indian Express** 

**Migrants Welfare** 

#### Why in the news?

• Recently activists are demanding strict implementation of the Inter-State Migrant Workmen (Regulation of Employment and Conditions of Service) Act, 1979, to ensure the welfare of inter-State migrants who are suffering due to the nationwide lockdown.

#### **About Inter-State Migrant Workmen Act, 1979**

- The Act seeks to regulate the employment of inter-State migrants and their conditions of service.
- It is applicable to every establishment that employs five or more migrant workmen from other States; or if it had employed five or more such workmen on any day in the preceding 12 months.
- It is also applicable to contractors who employed a similar number of inter-State workmen.
- The **Act would apply regardless** of whether the **five or more workmen** were in addition to **others employed** in the establishment or by the contractors.
- It **envisages a system of registration** of such establishments.
- The principal employer is prohibited from employing inter-State workmen without a certificate of registration from the relevant authority.
- The law also **lies down** that **every contractor** who **recruits workmen** from **one State for deployment in another State** should **obtain a license** to do so.

## About Occupational Safety, Health and Working Conditions Code, 2019

- The **bill has been introduced in Parliament** called the **Occupational Safety**, **Health and Working Conditions Code**, **2019**.
- The proposed code seeks to merge 13 labour laws into a single piece of legislation.
- The **Inter-State Migrant Workmen** (Regulation of Employment and Conditions of Service) **Act, 1979**, is one of them.
- Activists fear that **specific safeguards given to migrant workers may be lost** as a result of this consolidation.

# **Topic- GS Paper 2-Governance**



#### **Source- The Hindu**

## **BiPAP Non-Invasive Ventilator**

#### Why in the news?

• Recently the National Aerospace Laboratories (CSIR) has developed its version of BiPAP, a non-invasive breathing support device, for the use of non-critical non-ICU cases of COVID-19.



#### **About BiPAP Non-invasive Ventilator**

• These **ventilators** are also **named as SwasthVayu.** Features:

- It is a microcontroller-based precise closed-loop adaptive control system with a built-in biocompatible "3D printed manifold & coupler" with HEPA filter (Highly Efficient Particulate Air Filter).
- These unique features help to alleviate the fear of the virus spread.
- It has features like **Spontaneous, CPAP, Timed, AUTO BIPAP modes** with provision to connect **Oxygen concentrator or Enrichment unit externally**.
- The major advantage of this machine is that it is simple to use **without any specialized nursing, cost-effective, compact, and configured** with the majority of indigenous components.
- This is ideal for treating COVID -19 patients in Wards, Makeshift Hospitals, dispensaries, and home in the current Indian COVID 19 scenario.

# **Topic- GS Paper 2- Health Issues**

**Source-PIB** 

'Suraksha Store initiative.'

#### Why in the news?

• The **Department of Consumer Affairs** has recently partnered with **tech startups Safejob and Seekify** to **use technology to power the Suraksha Store Initiative**.

#### **About the Suraksha Store initiative**

• It is designed for the health and safety of the citizens during and after the lockdown, as per the companies' joint release.





#### **Objective**

- The **primary objective** of this project is to **educate Kirana store owners** across the country about the **Covid-19 safety guidelines and protocols** required to be followed while **running their businesses.**
- The protocols were decided by the Food Safety and Standards Authority of India (FSSAI) and the Ministry of Home Affairs (MHA).

#### **About Suraksha Store**

- It is a store (Kirana, pharmacy, consumer touchpoint) that follows 100% Suraksha safety norms.
- These stores shall be **educated**, **certified**, **and validated** to follow all **common minimum health standards** as well as **safety checklists**.

#### About the Food Safety and Standards Authority of India

- It is an autonomous body established under the Ministry of Health & Family Welfare, Government of India.
- The FSSAI has been established under the Food Safety and Standards Act, 2006, which is a consolidating statute related to food safety and regulation in India.
- It is responsible for protecting and promoting public health through the regulation and supervision of food safety.
- The FSSAI has its headquarters in New Delhi.
- The authority also has six regional offices located in Delhi, Guwahati, Mumbai, Kolkata, Cochin, and Chennai.

# **Topic- GS Paper 2-Governance Source- The Hindu**

#### **Mission Sagar**

#### Why in the news?

- Recently India launched Mission Sagar as a part of the government's outreach initiative towards five Island nations in the Indian Ocean amidst the ongoing COVID-19 pandemic.
- These five islands are Maldives, Mauritius, Seychelles, Madagascar, and Comoros,

#### **About the Mission Sagar**

- Its aim to provide Food Items, COVID related Medicines including HCQ Tablets and Special Ayurvedic Medicines with Medical Assistance Teams embarked.
- Indian Naval Ship (INS) Kesari has been deployed under this mission.





#### Agency involved

• The operation is being progressed in close coordination with the Ministries of Defence and External Affairs, and other agencies of the Government of India.

# **Significance**

- The deployment is in consonance with the Prime Ministers' vision of Security and Growth for All in the Region 'SAGAR' promulgated in March 2015.
- SAGAR highlights the importance accorded by India to relations with her neighboring countries and further strengthens the existing bond.

#### **Topic- GS Paper 2-Governance**

**Source- The Hindu** 

# Ministry of MSME Launches CHAMPIONS Portal

#### Why in news?

• Union Ministry of MSME has recently launched the CHAMPIONS portal (<u>Champions.gov.in</u>).

#### **About CHAMPIONS Portal**

- The CHAMPIONS stands here for the Creation and Harmonious Application of Modern Processes for Increasing the Output and National Strength. Accordingly, the name of the system is CHAMPIONS.
- It is a Technology driven Control Room-Cum-Management Information System.
- The system utilises modern ICT tools that are aimed at assisting Indian MSMEs march into the big league as National and Global CHAMPIONS.
- The portal is basically for making the smaller units big by solving their grievances, encouraging, supporting, helping, and handholding.
- It is a real one-stop-shop solution of MSME Ministry.

# **Topic- GS Paper 2-Governance**

**Source-PIB** 

**Covid-Jagratha Portal** 

#### Why is in the news?

Recently, **Kerala government** has made it **compulsory for passengers travelling** by **special trains** to **apply for digital passes** on the **'Covid-Jagratha portal'**.



#### **About Covid-Jagratha Portal**

- It is a **comprehensive solution for effective daily monitoring of the quarantine** and **health status** of the people under surveillance.
- It also has a **provision of health service** through **teleconsultation and referral** based on the reports available in the system.
- It is designed for **disseminating information related to Covid-19** for public and provisions for accessing emergency services for the public.



• It can be used to generate a simplified daily report on welfare measures initiated by the District Administration for the public who are provided with support during lockdown like support to elderly people, migrant labourers and Public Distribution system.

**Topic- GS Paper 2-Governance Source- TOI** 

**India State-Level Disease Burden Initiative** 

#### Why is in the news?

• Recently, under the **India State-Level Disease Burden Initiative**, data has been released related to **the Under-5 mortality rate in India**.

#### Key point of the data

- The Under-5 Mortality Rate in India has **dropped by 49% since 2000.** There is a **six-fold variation** in the **Under-5 Mortality Rate** between states and an **11-fold variation** between various districts.
- **Neonatal Mortality Rate (NMR)** dropped by **38% since 2000**, but there is a five-fold variation in the rate between the states and eight-fold variation between the districts of India.
- Nearly 68% of under-5 deaths in India are attributable to the child and maternal malnutrition.
- The largest contributors of under-5 deaths in India are low birth weight and short gestation (46%) and child growth failure (21%).
- Nearly 11% of under-5 deaths are attributable to unsafe water and sanitation, and 9% to air pollution and 83% of the neonatal deaths are attributable to low birth weight and shorter gestation.



• The leading causes of under-5 deaths in India are lower respiratory infections (17.9%), preterm birth (15.6%), diarrhoeal diseases (9.9%), and birth asphyxia and trauma (8.1%).

#### **About India State-Level Disease Burden Initiative**

- It is a collaboration between the Indian Council of Medical Research (ICMR), the Public Health Foundation of India (PHFI), Institute for Health Metrics and Evaluation (IHME), and senior experts and stakeholders.
- It was launched in 2015 to report an unprecedentedly comprehensive assessment of the diseases causing the most premature deaths and ill-health in each state of the country.

Topic- GS Paper 2-Governance Source- The Hindu Jal Jeevan Mission

#### Why is in the news?

Recently, the Union Territory of Jammu & Kashmir has planned to provide tap water connection to all rural households by December 2022 under the Jal Jeevan Mission.



#### **About Jal Jeevan Mission**

- It is the **government envisages** renewed efforts to provide **water supply to every** household by 2024.
- The Jal Jeevan Mission is set to be based on various water conservation efforts like point recharge, desilting of minor irrigation tanks, use of greywater for agriculture and source sustainability.
- The aim of 'Jal Jeevan Mission' (JJM) is to provide every rural household in the country a Functional Household Tap Connections for drinking water in adequate quantity of prescribed quality on a regular and long-term basis at affordable service delivery charges leading to improvement in their living standards.
- Under this mission, the **creation of local infrastructure for source sustainability** measures as mandatory elements, like **rainwater harvesting**, **groundwater recharge and management of household wastewater for reuse**, would be undertaken.

#### **Funding pattern**



• The fund sharing pattern between the **Centre and states is 90:10 for Himalayan** and **North-Eastern States, 50:50 for other states**, and **100% for Union Territories**.

# Following institutional arrangement has been proposed for the implementation of JJM.

- a. National Jal Jeevan Mission at the Central level;
- b. State Water and Sanitation Mission (SWSM) at State level;
- c. District Water and Sanitation Mission (DWSM) at the district level; and
- d. Gram Panchayat and/ or its sub-committees, i.e. Village Water Sanitation Committee (VWSC)/ Paani Samiti at village Level.

#### **Topic- GS Paper 2-Governance**

**Source- The Hindu** 

# **Direct seeding of rice**

#### Why in the news?

• Recently due to lockdown, the two granary states of Punjab and Haryana Farmers are now being encouraged to adopt 'direct seeding of rice' (DSR) in place of conventional transplanting.

# How is DSR different from normal transplanting of paddy? a.Normal transplanting of paddy

- In transplanting, farmers prepare nurseries where the paddy seeds are first sown and raised into young plants.
- These **seedlings** are then **uprooted and replanted 25-35 days** later in the main field
- The nursery seedbed is 5-10% of the area to be transplanted.



#### **b.**Direct seeding of rice

- In this, there is no nursery preparation or transplantation.
- The seeds are instead directly drilled into the field by a tractor-powered machine.





## **Advantages of DSR**

- In this technology, water is replaced by real chemical herbicides.
- Farmers have only to level their land and give one pre-sowing irrigation or rain.
- It also saves water by not requiring flooding of fields.

#### **Drawbacks of DSR**

- The main issue is the availability of the herbicides.
- The seed requirement for DSR is also higher compared to transplanting.
- Laser land levelling is compulsory in this technology, whereas it is not required in traditional transplantation.

#### Note:

• The **Punjab Agricultural University (PAU)** in **Ludhiana** has developed a **'Lucky Seed Drill'** that can both **sow seeds** and simultaneously **spray herbicides to control weeds**.

Topic- GS Paper 3-Governance Source- The Hindu Direct seeding of rice Why in the news?

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Topic- GS Paper 3-Governance

**Source- The Hindu** 

## **National Disaster Management Authority**

## Why in the news?

• In the wake of the gas leak at a factory in Visakhapatnam, the National Disaster Management Authority (NDMA) has recently issued detailed guidelines for restarting industries after the lockdown.



# **About the National Disaster Management Authority**

- It is the **apex statutory body** for disaster management in India.
- The NDMA was formally **constituted on 27th September 2006**, in accordance with the **Disaster Management Act, 2005**.

#### Composition

• The **Prime Minister is the ex-officio chairperson** of the **National Disaster Management Authority** who chairs a **9-member board**.

#### **Primary Function**

- Its primary purpose is to coordinate the response to natural or man-made disasters and for capacity-building in disaster resiliency and crisis response.
- It is also the apex body to lay down policies, plans and guidelines for Disaster Management to ensure a timely and effective response to disasters.

#### **Vision**

• To build a safer and disaster resilient India by a holistic, proactive, technology-driven and sustainable development strategy that involves all stakeholders and fosters a culture of prevention, preparedness and mitigation.

**Topic- GS Paper 2-Governance Source- Indian Express** 

# 'GOAL' programme to discover tribal youth talent

#### Why in the news?

• Recently the **tribal minister has launched the "GOAL - Going Online As Leaders - a programme** of his Ministry **in partnership with Facebook at a Webinar in New Delhi**.





## **About the GOAL programme**

• It is a digitally enabled programme envisages to act as a catalyst to explore the hidden talents of the tribal youth.

## **Objectives**

- The program aims to enable Scheduled Tribe youth in remote areas to use digital platforms for sharing their aspirations, dreams and talent with their mentors.
- It is designed to provide mentorship to tribal youth through digital mode.

## How will it work?

- In this program, **5000 scheduled tribe youth** (to be called as 'Mentees') will get an **excellent opportunity** to get training by experts from **different disciplines and fields (to be called as 'Mentors').**
- There will be one mentor for two mentees.
- The selected mentees will remain engaged in the program for **nine months or 36** weeks comprising **28** weeks of mentorship followed by eight weeks of internship.
- The program will focus on three core areas **Digital Literacy**, **Life Skills and Leadership** and Entrepreneurship, and on sectors such as Agriculture, Art & Culture, Handicrafts & Textiles, Health, Nutrition, among others.

# **Topic- GS Paper 2-Governance Source- PIB**

## **National Migrant Information System**

Why is in the news?

• National Disaster Management Authority has recently developed the National Migrant Information System to track the movement of migrant labourers amid the coronavirus lockdown.





## **About the National Migrant Information System**

- The **portal is based on a central repository on migrant workers** to ease their movements towards their native places.
- The NMIS is based on the existing National Disaster Management Authority (NDMA)'s GIS portal.

#### **Features of NMIS**

- The NMIS aims to capture the information regarding the movement of migrants and facilitate the smooth movement of stranded persons across States.
- The **key data pertaining** to the **persons migrating** has been standardized for uploading such as name, age, mobile number, originating and destination district, date of travel, etc., which states are already collecting.
- States will be able to **visualize how many people** are going out from where and how many are **reaching destination states**.
- The mobile numbers of people can be used for contact tracing and **movement** monitoring during COVID-19.
- A unique ID is generated for each migrant, which can be used for all transactions. Topic- GS Paper 2-Governance

**Source- The Hindu** 

# <u>Union Finance Minister announces several initiatives to boost Education Sector</u> Why in the news?

• Recently the Union Finance & Corporate Affairs Minister has announced several initiatives to boost the education sector.

#### These initiatives are:

- a. One nation, one digital platform" and "one class one channel."
- This will ensure that quality education material will reach the students present in the farthest areas of the country. The initiatives will boost the access and equity in education and improve the gross enrolment ratio in the times to come.
- Under the initiative, due consideration is being given to the Divyang children also, and the measures will usher in a new paradigm in the creation of New India.

## b. PM e-VIDYA

• It is a **comprehensive initiative** which unifies all efforts related to **digital/online/on-air education** which will **enable multi-mode access to education** and includes:



- ✓ DIKSHA (one nation-one digital platform)
- It will now become the **nation's digital infrastructure** for providing **quality e-content in school education** for all the **states/UTs**
- ✓ **TV (one class-one channel)** where **one dedicated channel** per grade for each of the **classes 1 to 12** will provide **access to quality educational material.**
- ✓ SWAYAM online courses in MOOCS format for school and higher education.
- ✓ **IITPAL** for **IITJEE/NEET** preparation.
- ✓ The study material for the differently-abled developed on **Digitally Accessible Information System (DAISY)** and in **sign language on NIOS website/ YouTube. c. Manodarpan initiative**
- It is being launched to provide such support through a website, a toll-free helpline, national directory of counsellors, interactive chat platform, etc.
- This **initiative will benefit** all **school-going children** in the country, along with their parents, teachers and the community of stakeholders in school education.
- d. National Foundational Literacy and Numeracy Mission
- It will be launched, for ensuring that every child in the country necessarily attains foundational literacy and numeracy in Grade 3 by 202.
- This mission will cover the **learning needs of nearly 4 crore children** in the **age** group of 3 to 11 years.

Topic- GS Paper 2-Governance

**Source-PIB** 

## **Shekatkar Committee**

#### Why in the news?

• Government has recently accepted and implemented three important recommendations of the Committee of Experts (CoE) under the Chairmanship of Lt General D B Shekatkar (Retd) relating to border infrastructure.



#### • These accepted Recommendations are

- a. To outsource road construction work beyond the optimal capacity of Border Roads Organisation (BRO).
- b. It has been made mandatory to **adopt Engineering Procurement Contract (EPC)** mode for **execution of all works** costing more than **Rs 100 crore.**
- c. The other recommendation relating to the introduction of modern construction plants, equipment and machinery, has been implemented by delegating enhanced procurement powers from Rs 7.5 crore to Rs 100 crore to BRO, for domestic and foreign procurements.



d. Border Roads has recently inducted **Hot-Mix Plant 20/30 TPH** for the speedier laying of roads, **remotely operated hydraulic Rock Drills DC-400 R** for hard rock cutting, a **range of F-90 series** of **self-propelled snow-cutters/blowers** for **speedier snow clearance.** 

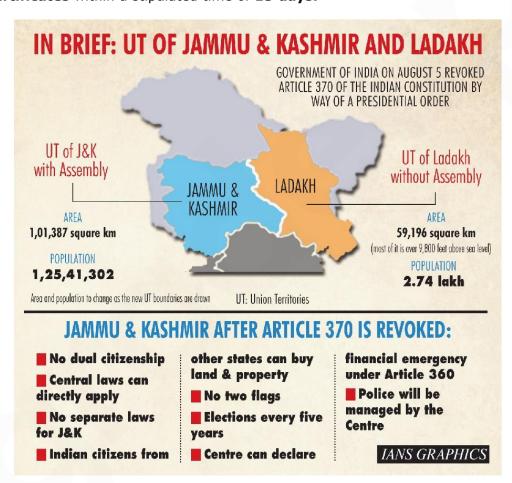
**Topic- GS Paper 2-Governance** 

**Source- The Hindu** 

**J&K** defines rules for domicile certificates

Why is in the news?

• The J&K administration has recently notified the J&K grant of domicile certificate procedure rules 2020 and set a fast track process in motion to issue the certificates within a stipulated time of 15 days.



#### **Background**

• The Centre had issued the Jammu and Kashmir Reorganization (Adaptation of State Laws) Order 2020.

Under this order, the domicile is defined as

- ✓ any person "who has resided for 15 years in the UT of J&K or
- ✓ has studied for seven years and appeared in class 10th/12th examination in an educational institution located in the UT of J&K".

## **Highlights of the Amendment**

• Under the amended rules, eligible non-locals can also apply for the certificate.



- These rules provide a **simple time-bound and transparent procedure** for issuance of **domicile certificates** in such a manner that **no category of person** is put to **any inconvenience.**
- There is a **timeline of 15 days** for **issuance of certificates.** Eligibility
- All **Permanent Resident Certificate holders** and their **children living outside J&K** can apply for the certificates.
- Kashmiri migrants living in or outside J&K can get domicile certificates by simply producing their Permanent Residence Certificate (PRC), ration card copy, voter card or any other valid document.
- A special window is also provided to migrants who have not registered with the Relief and Rehabilitation department.
- Bonafide migrants can apply with the Relief and Rehabilitation department by providing documents like electoral rolls of 1988, proof of registration as a migrant in any State in the country or any other valid document.
- The new process will allow **West Pakistan refugees**, **safai karamcharis** and **children of women who married non-locals** to apply for jobs here.
- According to the **new domicile laws**, **Central government officials**, All India Service Officers, officials of Public Sector Undertakings, Autonomous bodies of the Central Government, Public Sector Banks, Statutory bodies, Central Universities and recognised research institutes of the Central Government, who have served in the Union Territory of Jammu and Kashmir for a total period of ten years, are eligible for the certificate.
- Children who can produce **Class 10 or Class 12 certificate** from any **J&K school** will also be eligible for these certificates.
- A person who has studied for **seven years** and appeared in **class 10/12th examination** in an **educational institution located in J&K** will also be eligible.

**Topic- GS Paper 2-Governance** 

**Source- The Hindu** 

## **National Test Abhyas App**

Why is in the news?

• Union Human Resource Development Minister has recently launched a new mobile app called the 'National Test Abhyas'.





## **About the National Test Abhyas App**

- It has been developed by **National Testing Agency** to enable candidates to take mock tests for upcoming exams such as **JEE Main, NEET under the NTA's purview.**
- It will help to facilitate candidates' access to high-quality mock tests in the safety and comfort of their homes since there was a demand for making up the loss to students due to closure of educational institutions and NTA's Test-Practice Centers (TPCs) due to the continuing lockdown.
- The app will make available practice tests on smartphones or computers for all students in India irrespective of their level of access to devices and quality of the network.
- The app also has an **offline mode where students**, on **downloading the mock tests**, can attempt the test without the internet.

## **About National Testing Agency**

- It is an **autonomous and self-sustained premier testing organization** to conduct entrance examinations for **higher educational institutions**.
- It will be society registered under Indian Societies Registration Act, 1860.

## Composition

- It will be chaired by an eminent educationist appointed by Ministry of Human Resource Development.
- Its **CEO** will be **Director General (DG)** appointed by the Government.
- It also has **Board of Governors** comprising members from **user institutions**.

# **Topic- GS Paper 3-Education Source- PIB**

#### Nepal-India border dispute

#### Why in the news?

• The Nepal cabinet has decided it will release a new, updated political map which will include the disputed areas of Lipulekh, Kalapani and Limpiyadhura as part of Nepali territory.



#### What was the issue?

• Kathmandu has stepped up its protests on the border issue after the Indian defence ministry recently inaugurated a link road to the China border that passes through Lipulekh. Following the road inauguration, the Nepal government released



a press note stating that the eastern area from Mahakali River belongs to Nepal as per the Sugauli Treaty, 1816.

• But the Indian government said that it had constructed the road in its territory.



## **About the Treaty of Sugauli**

- Treaty of Sagauli, (March 4, 1816), an agreement between the Gurkha chiefs of Nepal and the British Indian government that ended the Anglo-Nepalese (Gurkha) War (1814–16).
- By the treaty, Nepal renounced all claim to the disputed Tarai, or lowland country, and ceded its conquests west of the Kali River and extending to the Sutlej River.
- Nepal remained independent, but it received a British resident with the status of an ambassador to an independent country rather than of the controlling agent of the supreme government in an Indian state.

**Topic- GS Paper 2-Governance Source- the Wire** 

**Star Rating of Garbage Free Cities** 

Why is in the news?

- Recently Minister of State (I/C) for Housing and Urban Affairs announced the results of Star Rating of Garbage Free Cities for the year 2019-2020. The government also launched the revised protocol for the Star Rating of Garbage Free Cities at the event.
- The revised protocol will consider ward-wise geo-mapping, monitoring of Solid Waste Management (SWM) value chain through ICT interventions like Swachh Nagar App and zone-wise rating in cities with a population of 50 lakh+.





## **Highlights of the survey**

- As per the survey, there are a total of 6 cities have been graded five stars, 65 Cities rated 3 Star and 70 Cities rated 1 Star.
- These **5-Star Garbage Free Cities** are **Surat, Rajkot, Indore, Mysore, Ambikapur** and **Navi Mumbai.**
- The total 34 of Maharashtra's cities including Chandrapur, Dhule, Jalgaon, Jalna, Thane and Mira-Bhayandar have been given a 3-star rating.
- Total 41 cities including Ahmednagar, Akola, Nashik, Vasai-Virar and Kalyan-Dombivili have been rated 1 star.

## **About Star Rating Protocol**

- The **Star Rating Protocol** was launched by the **Ministry of Housing and Urban Affairs in January 2018.**
- In this, the **Ministry of Housing and Urban Affairs (MoHUA)** had launched a **unique initiative the 7-star rating system**.
- The 7-star rating system aimed to institutionalize a mechanism for cities to achieve garbage free status and achieve higher degrees of cleanliness.
- As part of the **star rating protocol, urban spaces of the country** are evaluated based on **multiple cleanliness indicators** with regard to **waste management**
- a. door to door waste collection
- b. waste segregation
- c. plastic waste management
- d. cleaning of drains
- e. water bodies and others

# **Topic- GS Paper 2-Governance**

**Source- The Hindu** 

#### **International Matters**

# **India's Permanent Mission to the United Nations**

#### Why in the news?

• Recently India has appointed diplomat T S Tirumurti as its Permanent Representative to the United Nations.



#### **About Permanent Missions to the United Nations**

- The **Permanent Mission is the diplomatic mission** that **every member state deputy to the United Nations**.
- It is headed by a **Permanent Representative**, who is also **referred to as the "UN** ambassador."
- The Representatives are assigned to the UN headquarters in New York City, and can also be appointed to other UN offices in Geneva, Vienna, and Nairobi.

## According to Article 1 (7) of the Vienna Convention:

• The Permanent Mission is a mission of permanent character, representing the State, sent by a State member of an international organization to the Organization.

## According to the UN General Assembly resolution 257(III) of 3 December 1948:

- The presence of such permanent missions serves to assist in the realization of the purposes and principles of the United Nations.
- It also helps to keep the **necessary liaison between the Member States** and the **Secretariat in periods** between **sessions of the different organs of the United Nations**.

#### The Indian Permanent Mission at the UN

- The Permanent Mission of India in New York have currently eight Indians in senior leadership positions at the United Nations at the levels of the Under-Secretary-General and Assistant Secretary-General.
- The first Indian delegates at the United Nations included statesman Arcot Ramasamy Mudaliar, and freedom fighters Hansa Mehta, Vijayalakshmi Pandit, and Lakshmi Menon.
- Mehta and Pandit were **among the 15 women members of the Indian Constituent Assembly**.

#### **India and the United Nations**

- India was among the select members of the United Nations that signed the United Nations Declaration at Washington on January 1, 1942.
- India also participated in the historic UN Conference of International Organization at San Francisco from April 25 to June 26, 1945.
- The Mission in New York is housed in a 27-story building designed by the noted architect Charles Correa in 1993 and is decorated with MF Hussain paintings.

# **Topic- GS Paper 2-International Institution**

**Source- Indian Express** 

Coronavirus Global Response International Pledging Conference

## Why in the news?

• British **Prime Minister Boris Johnson** has recently opened a **virtual global conference on COVID-19** by calling on **all countries to step up their efforts and work together** on fighting the coronavirus pandemic.

#### **About Pledging Conference**

- It was co-hosted by the UK and eight other countries and organizations, including Canada, France, Germany, Italy, Japan, Norway, Saudi Arabia, and the European Commission.
- At the conference, Johnson confirmed the UK's pledge of 388 million pounds aid funding for research into vaccines, tests, and treatments part of a larger 744



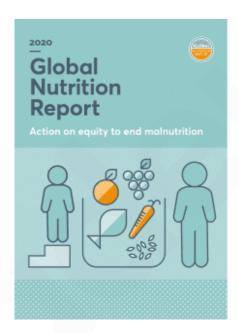
million pounds existing UK aid commitment to help end the pandemic and support the global economy. This includes 250 million pounds for the Coalition for Epidemic Preparedness Innovations to develop vaccines against coronavirus – the biggest such donation to the fund by any country.

# **Topic- GS Paper 2-Governance, International Institution Source- AIR**

#### **Global Nutrition Report 2020**

Why in the news?

• Global Nutrition Report 2020 has been published recently. With India facing a major malnutrition crisis, it calls for concerted actions to address the gaps and concerns.



#### **About the Report**

- Key nutrition indicators used in the report
- a. Stunting, or low height for age, is caused by long-term insufficient nutrient intake and frequent infections.
- b. Wasting, or low weight for height, is a strong predictor of mortality among children under five, which usually the result of acute significant food shortage and disease.
- c. **Overweight**: It is the **condition of having more body fat** than is healthy.
- It also identified the country as one with the **highest rates of domestic inequalities** in malnutrition.
- In 2012, the World Health Assembly identified six nutrition targets for maternal, infant, and young child nutrition to be met by 2025.

#### **India and Report**

• According to the **Global Nutrition Report 2020**, India will miss targets for **all four nutritional indicators** for which there is **data available**.

These indicators are

- a. stunting among under-five children
- b. anaemia among women of reproductive age
- c. childhood overweight
- d. exclusive breastfeeding



## **Underweight children**

- Between 2000 and 2016, underweight rates have decreased from 66.0% to 58.1% for boys and 54.2% to 50.1% in girls.
- However, this is **still high** compared with the **average of 35.6% for boys and 31.8% for girls in Asia.**
- In addition, 37.9% of children under five are stunted, and 20.8% are wasted, compared with the Asia average of 22.7% and 9.4%, respectively.

#### **Anaemic Condition**

- One in two women of reproductive age is anaemic, while at the same time, the rate of overweight and obesity continues to rise, affecting almost a fifth of the adults, at 21.6% of women and 17.8% of men.
- India is identified as among the three worst countries, along with Nigeria and Indonesia, for steep within-country disparities on stunting, where the levels varied four-fold across communities.

## Stunting level

- The stunting level in Uttar Pradesh is over 40%, and the rate among individuals in the lowest income group is more than double those in the highest income group at 22.0% and 50.7%, respectively.
- In addition, stunting prevalence is 10.1% higher in rural areas compared with urban areas.
- The same applies to **overweight and obesity**, where there are **nearly double** as many obese **adult females** as there are **males** (5.1% compared to 2.7%).

## Note: Sustainable Development Goal (SD Goal 2: Zero hunger)

- It aims to end all forms of hunger and malnutrition by 2030, making sure all people especially children have access to sufficient and nutritious food all year round.
- This **involves promoting sustainable agricultural practices**: supporting **small scale farmers** and **allowing equal access to land, technology, and markets.**

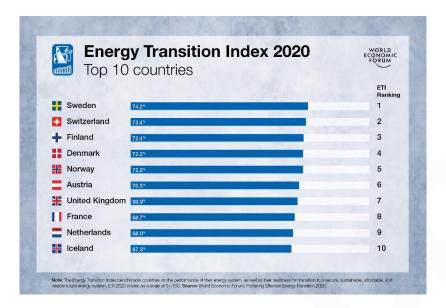
**Topic- GS Paper 3-Important Report Source- The Hindu** 

**Global Energy Transition Index** 

#### Why in the news?

• Recently, the World Economic Forum (WEF) has released the annual rankings of the global Energy Transition Index.





## **About the Energy Transition Index**

- It is a fact-based ranking intended to enable policymakers and businesses to plot the course for a successful energy transition.
- The index benchmarks 115 economies on the current performance of their energy systems across economic development and growth, environmental sustainability, and energy security and access indicators- and their readiness for transition to secure, sustainable, affordable, and inclusive energy systems.

#### **Overall Progress**

- The current study measuring readiness for the clean energy transition in 115 economies showed that 94 had made progress since 2015, but environmental sustainability continues to lag.
- This progress is a result of multifaceted, incremental approaches, including pricing carbon, retiring coal plants ahead of schedule, and redesigning electricity markets to integrate renewable energy sources.
- The greatest overall progress is observed among **emerging economies**, with the **average ETI score for countries** in the **top 10 percent remaining constant since 2015.**

## **Highlights of the index**

- Sweden has topped the Energy Transition Index for the third consecutive year and is followed by Switzerland and Finland in the top three.
- In **G20 countries** only **France (ranked 8th)** and the **UK (ranked 7th)** are in the **top ten**.
- Argentina, China, India, and Italy are among the major countries with consistent annual improvements since 2015.
- However, scores for Canada, Chile, Lebanon, Malaysia, Nigeria, and Turkey have declined since 2015.

#### **India's position**

- India has moved up two positions to rank 74th on a global 'Energy Transition Index', 2020.
- India has made improvements on all key parameters of economic growth, energy security, and environmental sustainability.



• It is one of the **few countries** in the **world to have made consistent** year-on-year **progress since 2015**.

## The improvements have come due to factors such as

- a. Political commitments, consumer engagement and investment, innovation, and infrastructure improvements.
- b. The initiatives of the **Indian Government** like **government-mandated renewable energy** expansion program which is now **extended to 275 GW by 2027.**
- c. India has also made significant strides in energy efficiency through bulk procurement of LED bulbs, smart meters, and programs for the labelling of appliances.
- d. Measures are also being experimented to drive down the costs of electric vehicles.

#### **About World Economic Forum**

• It is a nonprofit foundation established in 1971, based in Geneva, Switzerland.

## Major reports published by World Economic Forum

- a. Global Gender Gap Report
- b. Global Risk Report
- c. Global Competitiveness Report
- d. Global IT Report
- e. Global Travel and Tourism Report

# **Topic- GS Paper 3-Important Index Source- The Hindu**

73rd World Health Assembly

#### Why in the news?

- Recently the 73rd World Health Assembly will be conducted virtually due to the current COVID-19 pandemic.
- The World Health Assembly is the key decision-making body of the World Health Organization, attended by representatives of the United Nation's 194 member states.



**About the World Health Assembly** 



- It is the world's highest health policy-setting body under the World Health Organisation.
- It is composed of health ministers from member states.
- It is attended by delegations from all WHO Member States and focuses on a specific health agenda prepared by the Executive Board.

#### **Functions**

- to determine the policies of the Organization
- appoint the **Director-General**
- supervise financial policies
- review and approve the proposed programme budget

The Health Assembly is held annually in Geneva, Switzerland.

**Topic- GS Paper 2-International Institution Source- The Hindu** 

**Economy and Social development Bank of Schemes, Ideas, Innovation & Research Portal** 

#### Why in the news?

• Recently, the **Union Minister of Micro Small and Medium Enterprises** launched the **Bank of Schemes**, **Ideas**, **Innovation**, **and Research portal** (<a href="http://ideas.msme.gov.in/">http://ideas.msme.gov.in/</a>) on **MSMEs**.



#### About the portal

- The Portal (http://ideas.msme.gov.in/) gives access to all Schemes of Union, State, and UT Governments.
- It has the provision for uploading Ideas, Innovations & Researches in the sector.
- The **portal has unique features** of not only **crowdsourcing of ideas**, but also **evaluation and rating** the **ideas by crowdsourcing**.
- The portal has the facility to indicate the stage of Idea (Concept, Prototype, or Commercialized) to make more users friendly.
- Papers and photos related to Idea and Video and Social Media links can also be uploaded.

Topic- GS Paper 3-Economics Source- PIB Open Budget Survey 2019

Why in the news?



• Recently India has been placed at **53rd position among 117 nations** in terms of **budget transparency and accountability**, according to the recently released **Open Budget Survey 2019**.

## **About the survey:**

- The survey is conducted by **the International Budget Partnership (IBP).** It rates the **level of budget transparency** across countries on a **scale of 0-100**, based on several normative, internationally comparable indicators.
- It evaluates for each country the availability of eight key budget documents of the Central or Federal Government.
- The survey assesses whether these **budget documents are made public,** in a **timely manner**, and provides comprehensive information.

## **Highlight of the Recent Survey**

- ✓ Worldwide scenario:
- New Zealand has topped the chart with a score of 87.
- Some of the other large developing countries, with the **exception of China**, have got much **higher transparency scores compared to India**.
- South Africa (87), Mexico (82), and Brazil (81) are among the top six countries providing extensive information to the public for scrutiny.
- ✓ India and the Survey
- The survey has provided India's Union Budget process a transparency score of 49 out of 100, which is higher than the global average of 45.
- ✓ Suggestions to India for further improvements:
- Enhancing public participation
- There is a need to provide adequate space for public participation for priority setting in its budgets.
- Public understanding of Union and State Budgets should be encouraged to bring more clarity in the discourses on issues relating to fiscal policy and budgetary processes.

#### **About the Open Budget Survey**

- It is part of the International Budget Partnership's Open Budget Initiative.
- The headquarters- Washington, D.C., United States (U.S.)
- Open Budget Initiative is a global research and advocacy program to promote public access to budget information and the adoption of an accountable budget system.
- Centre for Budget and Governance Accountability (CBGA), has contributed research inputs towards developing an assessment of budget transparency for the efforts by the Union Government.

## **About the Centre for Budget and Governance Accountability**

- It is a think tank envisioned by a group of civil society leaders and academicians.
- It was started in 2002 as a program of the National Centre for Advocacy Studies (NCAS).
- It was set up as an independent organization in 2005 with the mandate to promote transparent, accountable, and participatory governance, and a people-centered perspective in the preparation and implementation of budgets in India.

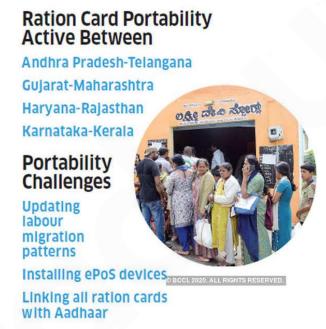
**Topic- GS Paper 3-Economics Source- The Economics Times** 



## 'One Nation, One Ration Card' plan

#### Why in the news?

- Recently the government has approved the integration of five more States and Union Territories with the National Cluster under the One Nation, One Ration Card plan.
- These States and U.T.s are Uttar Pradesh, Bihar, Punjab, Himachal Pradesh, and Dadra and Nagar Haveli and Daman and Diu.
- Twelve states have already under One Nation, One Ration Card plan namely Andhra Pradesh, Goa, Gujarat, Haryana, Jharkhand, Kerala, Karnataka Madhya Pradesh, Maharashtra, Rajasthan, Telangana and Tripura.



## About 'One Nation, One Ration Card' plan

- The 'one nation, one ration card' entails the integration of the existing PDS systems or portals of states and U.T.s with those of the Centre under a central repository of all National Food Security Act ration cards and beneficiaries.
- It will ensure all beneficiaries especially migrants can access PDS across the nation from any PDS shop of their own choice.

## Objective

- No poor person is deprived of getting **subsidized food grains** under the **food security scheme** when they shift from **one place to another**.
- It also aims to remove the chance of anyone holding more than one ration card to avail benefits from different states.

#### Significance:

• This will provide freedom to the beneficiaries as they will not be tied to anyone PDS shop and reduce their dependence on shop owners and curtail instances of corruption.

#### **Recent Government Initiatives:**



## 1. National Food Security Mission

- It is a **Centrally Sponsored Scheme** launched in **2007**.
- It aims to increase production of rice, wheat, pulses, coarse cereals, and commercial crops, through area expansion and productivity enhancement.
- It works toward restoring soil fertility and productivity at the individual farm level and enhancing farm level economy.

## 2. Rashtriya Krishi Vikas Yojana (RKVY)

- It was initiated in 2007, and allowed states to choose their own agriculture and allied sector development activities as per the district/state agriculture plan.
- It was converted into a Centrally Sponsored Scheme in 2014-15 also with 100% central assistance.
- Rashtriya Krishi Vikas Yojana (RKVY) has been named as Rashtriya Krishi Vikas Yojana-Remunerative Approaches for Agriculture and Allied Sector Rejuvenation (RKVY-RAFTAAR) for three years i.e. from 2017-18 to 2019-20.

## **Objectives:**

- Making farming a remunerative economic activity through strengthening the farmer's effort, risk mitigation, and promoting agri-business entrepreneurship.
- The primary focus is on pre & post-harvest infrastructure, besides promoting agrientrepreneurship and innovations.

## 3. National Food Security Act, 2013

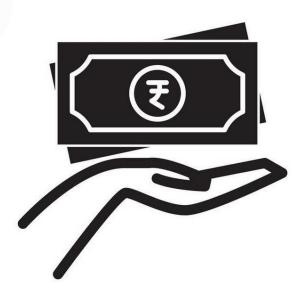
- National Food Security Act, 2013 came into being to provide for food and nutritional security in human life cycle approach, by ensuring access to adequate quantity of quality food at affordable prices to people to live a life with dignity.
- It converts entitlements of existing food security programs of the Central Government, including the Midday Meal Scheme, Integrated Child development scheme, and PDS into legal entitlements.
- The eldest woman of the household age 18 years or above is mandated to be the head of the household for issuing of ration cards under the Act.

**Note: Sustainable Development Goal (SDG)** Goal 2 – End hunger, achieves food security and improved nutrition and promotes sustainable agriculture

## Topic- GS Paper 3-Food Security Source- AIR Consol Bond

#### Why in the news?

• With the pandemic's shadow over the economy, a **Consol Bond issue** is a more compelling solution for the government.





#### **About the Consol Bond**

- It is also known as **perpetual bond** means a bond without a maturity date.
- The issuer has the option to buy back the bond after a specific period.
- The call option is typically **five years after the date of the issue**.
- In India, perpetual bonds are listed on stock exchanges in which an investor can sell the bonds on the transaction. These bonds are generally issued by large manufacturing companies or by banks to fund their long-term capital requirements.
- These bonds carry liquidity risk, interest rate risk, and credit risk.

## **Background**

- In 2014, the **British government**, a century after the start of the **First World War**, paid out **10% of the total outstanding Consol bond debt**.
- The bonds, which paid out **interest of 5%**, were issued in 1917 as the government sought to **raise more money to finance** the ongoing cost of the **First World War**.
- Citizens were asked to invest with the advertising message: "If you cannot fight, you can help your country by investing all you can in 5 percent Exchequer Bonds."
- Unlike the soldier, the investor runs no risk."

**Topic- GS Paper 3–Econonmics Source- The Hindu Editorial + ET** 

The energy efficiency initiatives by Bureau of Energy efficiency

#### Why in the news?

• The Ministry of Power has released a report on "Impact of energy efficiency measures for the year 2018-19" through a Video conference recently.



## **Highlights of the Report**

• The report highlights India's pledge in COP-21 that will bring down the energy intensity of the economy by 33 to 35% compared to 2005 levels by 2030.



- Now, with **energy efficiency initiatives**, the energy intensity of our economy has already been **reduced by 20% compared to 2005 levels**, which is a very good performance indeed.
- The study has identified the following major programs:
- a. Perform, Achieve and Trade Scheme,
- b. Standards & Labelling Programme,
- c. UJALA Programme, Municipal Demand Side Management Programme, etc.

## **About Star Rating Programme**

- Recently the Bureau of Energy Efficiency (BEE) has included Deep Freezer and Light Commercial Air Conditioners (LCAC) under its Star Rating Programme voluntarily.
- The program has been formulated by **the Bureau of Energy Efficiency**, as part of its mandate, under the **Energy Conservation Act, 2001**.
- Under this Programme, **BEE has covered 24 appliances** till date wherein **ten appliances** are under the mandatory regime.

## **About the Bureau of Energy Efficiency**

- It is a **statutory body under the Ministry of Power**, Government of India.
- It is assisted in **developing policies and strategies** with the **primary objective of reducing the energy intensity** of the Indian economy.
- It coordinates with designated consumers, designated agencies, and other organizations to identify and utilize the existing resources and infrastructure, in performing the functions assigned to it under the energy conservation act.

**Topic- GS Paper 3-Energy Source- PIB** 

#### **Toman Currency**

#### Why in the news?

Recently the Iranian Parliament proposed a bill to replace the national currency (redenomination), the rial with another basic unit of currency called the Toman.



## Highlights of the bill

- It allows the government to slash four zeros from the rial and to replace Iranian national currency Rial with another basic unit of currency called Toman (redenomination).
- Each Toman will be equal to 10,000 rials.



• The rial will **remain legal tender alongside Toman** for **two years**, during which the **old coins and bills** will be gradually **collected for new ones** to replace them.

#### Reasons behind this move

- Iran's move is to offset the fallout from inflation fueled by U.S. sanctions.
- It helps to overcome the declining value of the rial against other currencies.
- It also helps to ease the psychological impact of using large digits in financial transactions.

# **Topic- GS Paper 3-Economics Source- Indian Express**

#### **Atal Pension Yojana**

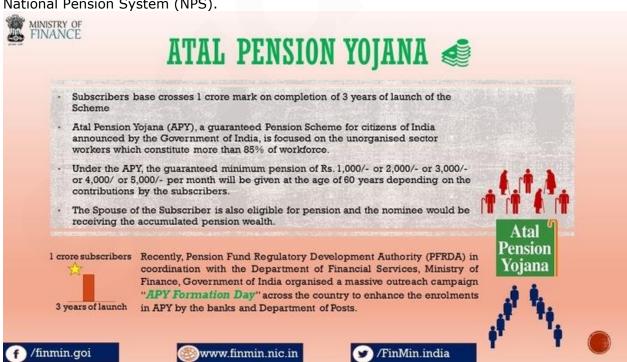
• Recently the flagship social security scheme of Government of India 'Atal Pension Yojana' (APY) has completed five years of successful implementation.

## **About the Atal Pension Yojana**

- It is previously known as Swavalamban Yojana which is a government-backed pension scheme in India, primarily targeted at the unorganised sector.
- It was mentioned in the 2015 Budget speech by the then Finance Minister Arun Jaitley.

#### **Benefits**

- It has a fixed pension for the subscribers ranging from Rs.1000 to Rs. 5000, if s/he joins and contributes between the age of 18 years and 40 years.
- The contribution levels would vary and would be low if the subscriber joins early and increase if s/he joins late.
- The same pension is payable to Spouse after the death of the Subscriber.
- Return of indicative pension wealth to nominees after the death of spouse.
- Contributions to the Atal Pension Yojana (APY) are eligible for tax benefits similar to the National Pension System (NPS).



#### **Eligibility**

• Atal Pension Yojana (APY) is open to all bank account holders who are not members of any statutory social security scheme.



• Any individual who is eligible to receive benefits under the APY will have to furnish proof of possession of Aadhaar number or undergo enrolment under Aadhaar authentication.

## Age of joining and contribution period

• The minimum age of joining APY is 18 years and maximum age is 40 years.

**Topic- GS Paper 3-Social Security Source- PIB** 

**Aatma Nirbhar Bharat Abhiyaan** 

## Why is in the news?

- Amid the coronavirus outbreak and national lockdown, the Prime Minister of India launched a Special economic and comprehensive package of Rs 20 lakh croresequivalent to 10% of India's GDP and called it Aatma Nirbhar Bharat Abhiyaan. This is the first tranche of the Atmanirbhar Bharat Abhiyan which includes the ongoing Pradhan Mantri Garib Kalyan Yojana, meant to support the poorest and most vulnerable communities during the pandemic.
- It also has **several measures taken by the Reserve Bank of India** to improve liquidity.
- More tranches are expected in the next few days.

## **Details of the economic package:**

## i. For salaried workers and taxpayers:

- Some relief was provided in the form of an **extended deadline for income tax returns** for **the financial year 2019-20**, with the due date now pushed to **November 30, 2020**.
- The rates of tax deduction at source (TDS) and tax collection at source (TCS) have been cut by 25% for the next year.
- While statutory provident fund (PF) payments have been reduced from 12% to 10% for both employers and employees for the next three months.

#### ii. NBFCs get attention:

- The amount of ₹3 lakh crore of this package has been allocated for collateral-free loan schemes for businesses, especially micro, small and medium enterprises (MSMEs).
- This **emergency credit line** will ensure that **45 lakh units** will have access to working capital to resume **business activity and safeguard jobs.**
- A ₹50,000 crore equity infusion is also planned, through an MSME fund of funds with a corpus of ₹10,000 crores.
- The definition of an MSME is being expanded to allow for higher investment limits and the introduction of turnover-based criteria. These are:
- a. **Micro Industry:** Investment is less than 1 crore, and Turnover is less than 5 crore.
- b. **Small Industry:** Investment is between 1-10 crore, and Turnover is between 5-50 crore.
- c. **Medium Industry:** Investment is between 10-20 crore, and Turnover is between 50-100 crore.

#### iii. Employees Provident Fund Support for business and organized worker

• The scheme introduced as part of PMGKP under which Government of India contributes 12% of salary each on behalf of both employer and employee to EPF will be extended by another 3 months for salary months of June, July and August 2020.

#### iv. Tax-related measures

- There is Reduction in Rates of 'Tax Deduction at Source' and 'Tax Collected at Source".
- The TDS rates for all non-salaried payment to residents, and tax collected at source rate will be reduced by 25 percent of the specified rates for the remaining period of FY 20-21.



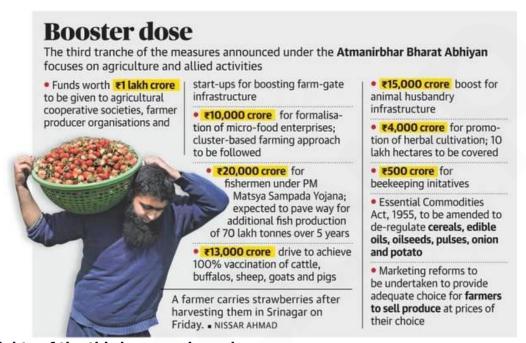
**Topic- GS Paper 3–Economics** 

Source-PIB

## Third tranche of the economic stimulus package

Why in the news?

• The Union Finance Minister has recently announced the third economic package under Atma Nirbhar Bharat to strengthen Infrastructure Logistics, Capacity Building, Reforms for Agriculture, Fisheries and Food Processing Sectors.



# Highlights of the third economic package

- a. Micro Food Enterprises
- The Scheme promoting the **government's vision: 'Vocal for Local with Global outreach'** will be launched to help **2 lakh MFEs** who need **technical upgradation to attain FSSAI food standards,** build **brands and marketing.Operation Greens**
- It is run by the **Ministry of Food Processing Industries (MOFPI)** which was earlier only for the tomatoes, onion and potatoes now **will be extended to all fruits and vegetables**.
- b. Animal Husbandry Infrastructure Development Fund
- This fund will be set up with an **outlay of Rs.15**, **000 crores** to support **private investment in Dairy Processing**, **value addition** and **cattle feed infrastructure**.
- c. Beekeeping initiatives
- The government will **implement a scheme for Infrastructure development** related to **Integrated Beekeeping Development Centres**, **Collection**, **Marketing and Storage Centres**, **Post-Harvest & value Addition facilities**, among others.
- d. Essential Commodities Act
- The government will amend the Essential Commodities Act to deregulate cereals, pulses, onions and potatoes.
- Stock limits will be imposed under very exceptional circumstances like national calamities, famine with a surge in prices.
- e. Contract Farming
- The government will consider introducing a law on contract farming under the Contract Act of 1872 to enable farmers to directly engage with processors, aggregators, large retailers and exporters fairly and transparently.



**Topic- GS Paper 3–Economics Source- The Hindu** 

#### **Employees Provident Fund**

Why is in the news?

- The Central government has notified the reduction in statutory rate of contributions of Employees Provident Fund from 12 per cent to 10 per cent for wage months period from May to July 2020.
- It will be applicable for all class of establishments covered under the Employees Provident Fund and Miscellaneous Provisions Act, 1952.



#### **Beneficial**

• The reduction in the rate of EPF contributions from 12 per cent to 10 percent of basic wages and Dearness allowances is intended to benefit both 4.3 Crore employees and employers of 6.5 lakhs establishments to tide over the immediate liquidity crisis to some extent.

#### **Exempted**

- This reduction of the rate of contribution does not apply to establishments like Central and State Public Sector enterprises or any other establishment owned or controlled by or under control of the Central or State Government.
- The reduced rate is also not applicable for **Pradhan Mantri Garib Kalyan Yojana-PMGKY beneficiaries** as the entire **employees'employees' EPF contributions of 12 per cent of wages and employers.**

## **About Employees' Employees' Provident Fund Organisation (EPFO)**

- It is a government organization that manages the provident fund and pension accounts of member employees and implements the Employees' Provident Fund and Miscellaneous Provisions Act, 1952.
- The Employees' Provident Fund and Miscellaneous Provisions Act, 1952 provides for the institution of provident funds for employees in factories and other establishments.
- It is administered by the Ministry of Labour & Employment, Government of India.

**Topic- GS Paper 3-Insurance Source- PIB** 

<u>Cabinet approves Special Liquidity Scheme for NBFCs/HFCs to address their Liquidity Stress</u>

Why is in the news?



The Union Cabinet has given its approval to the proposal of the Ministry of Finance to launch a new Special Liquidity Scheme for Non-Banking Financial Companies (NBFCs) and Housing Finance Companies (HFCs) to improve the liquidity position of the NBFCs/HFCs.



#### **Details of the Scheme:**

- The Government has proposed a framework for addressing the liquidity constraints of Non-Banking Financial Companies (NBFCs) and Housing Finance Companies (HFCs) through a Special Liquidity Scheme.
- A Special Purpose Vehicle would be set up to manage a Stressed Asset Fund (SAF) whose special securities would be guaranteed by the Government of India and purchased by the Reserve Bank of India (RBI) only.
- The proceeds of the sale of such securities would be used by the SPV to acquire **short-term debt of NBFCs/HFCs**.
- The Scheme will be administered by the Department of Financial Services, which will issue the detailed guidelines.

#### Impact:

- The **proposed Scheme** would be a **one-stop arrangement** between the **SPV and the NBFCs without having to liquidate** their current asset portfolio.
- The Scheme would also act as an **enabler for the NBFC** to get **investment grade or better rating for bonds issued.**
- The Scheme is likely to be **easier to operate and also augment the flow of funds** from the non-bank sector.

## **Benefits:**

- This facility would supplement the liquidity measures taken so far by the Government and RBI.
- The Scheme would benefit the real economy by augmenting the lending resources of NBFCs/HFCs/MFIs.

#### Background:

- It has been announced in the **Budget Speech of 2020-21** that a mechanism would be devised to provide **additional liquidity facility to NBFCs/HFCs** over that **provided through the Partial Credit Guarantee Scheme (PCGS).**
- There is an urgency to implement the above **Budget announcement to strengthen financial stability** on account of the **emerging situation of Covid-19.**

**Topic- GS Paper 3–Economics (Banking System)** 

Source- PIB

## Coir Geotextiles gets the nod for Rural Road Construction

#### Why is in the news?

Recently National Rural Infrastructure Development Agency has said that Coir Geotextiles will be used for the construction of rural roads under the Pradhan Mantri Gram Sadak Yojana-III (PMGSY-III)





#### **About Coir Geotextile**

- It is a permeable fabric, natural, strong, highly durable, resistant to rots, moulds and moisture, free from any microbial attack.
- As per the **PMGSY new technology guidelines** for road construction, 15% length in each batch of proposals is to be constructed using new technologies.
- Out of this 5% of roads are to be constructed using IRC accredited technology.
- The Indian Roads Congress (IRC) has now accredited coir Geotextiles for construction of rural roads.
- As per these instructions, **5% length of the rural roads under PMGSY-III** will be constructed using Coir Geotextiles.

#### About Pradhan Mantri Gram Sadak Yojana-III

• The Scheme was announced by the **Finance Minister in Budget Speech** for the **year 2018-19.** 

Features of Pradhan Mantri Gram Sadak Yojana-III (PMGSY-III):

- Under the **PMGSY-III Scheme**, it is **proposed to consolidate 1, 25, 000 Km road length** in the States.
- It involves the consolidation of Through Routes and Major Rural Links connecting habitations to Gramin Agricultural Markets (GrAMs), Higher Secondary Schools and Hospitals.
- The funds would be **shared in the ratio of 60:40** between the **Centre and State** for all **States except for 8 North-Eastern states** and **Himachal Pradesh & Uttarakhand** for which it **is 90:10.**

#### Pradhan Mantri Gram Sadak Yojana-I

- It was launched in **December 2000.**<u>Objective</u>
- To provide single all-weather road connectivity to eligible unconnected habitation of designated population size (500+ in plain areas and 250+ in North-East, hill, tribal and desert areas as per Census, 2001) for overall socio-economic development of the areas.

About Road Connectivity Project for Left Wing Extremism Area (RCPLWEA)



- The government had also launched Road Connectivity Project for Left Wing Extremism affected Areas in the year 2016 as a separate vertical under PMGSY.
- It helps to provide all-weather road connectivity with necessary culverts and cross-drainage structures in 44 districts (35 are worst LWE affected districts, and 09 are adjoining districts), which are critical from security and communication point of view.
- Under the **Scheme**, **5,066 Km road length** has been sanctioned.

## **About Indian Roads Congress**

- The Indian Roads Congress (IRC) is the Apex Body of Highway Engineers in the country.
- It was set up in **December 1934** on the recommendations of the Indian Road Development Committee best known as **Jayakar Committee** set up by the **Govt. of India** with the **objective of Road Development in India.**

**Topic: GS Paper 3- Infrastructure** 

**Source: Deccan Herald** 

Pradhan Mantri Matsya Sampada Yojana

Why is in the news?

• The Cabinet has approved the "Pradhan Mantri Matsya Sampada Yojana.

## About the Pradhan Mantri Matsya Sampada Yojana

- The scheme was announced by the Government in its Union Budget, 2019-20.
- It is a scheme to bring about the Blue Revolution through sustainable and responsible development of the fisheries sector in India.



#### **Implementation strategy**

- The **PMMSY will be implemented** as an **umbrella scheme** with **two separate Components** namely:
- a. Central Sector Scheme (CS)
- b. Centrally Sponsored Scheme (CSS).
- Under the Centrally Sponsored Scheme (CSS) Component, an investment of Rs. 18330 crores has been envisaged, which in turn is segregated into Non-beneficiary oriented and Beneficiary orientated sub-components/activities under the following three broad heads:
- a. Enhancement of Production and Productivity
- b. Infrastructure and Post-harvest Management
- c. Fisheries Management and Regulatory Framework



• It will be implemented over a period of 5 years from FY 2020-21 to FY 2024-25 in all States/Union Territories.

## **Central Sector Scheme (CS):**

- a. The entire **project/unit cost** will be borne by the Central Government (i.e. 100% central funding).
- b. Wherever direct Beneficiary oriented, i.e. individual/group activities are undertaken by the entities of central Government including National Fisheries Development Board (NFDB)
- c. the central assistance will be up to 40% of the unit/project cost for General category and 60% for SC/ST/Women category

## **Centrally Sponsored Scheme (CSS):**

The entire project/unit cost will be shared between **Centre and State** as detailed below:

- North Eastern & Himalayan States: 90% Central share and 10% State share.
- Other States: 60% Central share and 40% State share.
- Union Territories (with the legislature and without legislature): 100% Central share.

## Aims and objectives of PMMSY

- We are harnessing of fisheries potential in a sustainable, responsible, inclusive and equitable manner.
- Enhancing of fish production and productivity through expansion, intensification, diversification and productive utilization of land and water
- Modernizing and strengthening of the value chain post-harvest management and quality improvement
- Doubling fishers and fish farmers incomes and generation of employment
- Enhancing contribution to Agriculture GVA and exports
- Social, physical and economic security for fishers and fish farmers
- Robust fisheries management and regulatory framework

#### Note:

- The Gross Value Added (GVA) of fisheries sector in the national economy during 2018-19 stood at Rs 2,12,915 crores (current basic prices) which constituted 1.24% of the total National GVA and 7.28% share of Agricultural GVA.
- The sector has immense potential to double the fishers and fish farmers' incomes by 2022 as envisioned by Government and usher in economic prosperity.

#### **Topic- GS Paper 3-Economics**

Source- PIB

# Cabinet approves extension of 'Pradhan Mantri Vaya Vandana Yojana'

Why is in the news?

• Union Cabinet has recently given its approval for the extension of Pradhan Mantri Vaya Vandana Yojana. The extension of Pradhan MantriVayaVandanaYojana (PMVVY) up to March 31st, 2023 for a further period of three years beyond March 31st 2020.

#### **Highlights of Cabinet decisions**

- It has allowed initially an **assured rate of return of 7.40 % per annum** for the **year 2020-21 per annum** and thereafter to be reset every year.
- There will be an annual reset of the assured rate of interest with effect from April 1st of the financial year in line with the revised rate of returns of Senior Citizens Saving Scheme (SCSS) upto a ceiling of 7.75% with a fresh appraisal of the scheme on breach of this threshold at any point.



- We are capping Management expenses at 0.5% p.a. of funds of the scheme for the first year of scheme in respect of new policies issued and thereafter 0.3% p.a. for the second year onwards for the next 9 years.
- It has delegated the authority to Finance Minister to approve annual reset rate of return at the beginning of every financial year.
- The minimum investment has also been revised to Rs.1, 56,658 for a pension of Rs.12, 000/- per annum and Rs.1, 62,162/- for getting a minimum pension amount of Rs.1000/- per month under the scheme.

## About Pradhan Mantri Vaya Vandana Yojana

• It is a **social security scheme** for **senior citizens** intended to give an **assured minimum pension** to them based on an assured return on **the purchase price/subscription amount.** 

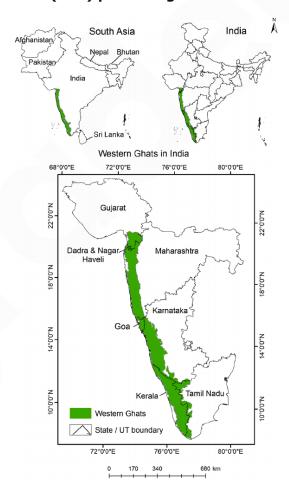
**Topic- GS Paper 3-Social Security** 

**Source- AIR** 

#### **Ecologically Sensitive Area of Western Ghats**

Why is in the news?

• Union Minister of Environment, Forest and Climate Change has recently interacted with the different state to discuss issues relating to notification of Ecologically Sensitive Area (ESA) pertaining to the Western Ghats.



#### **About Dr Kasturirangan Committee**

• Government of India had constituted a High-Level Working Group under the Chairmanship of Dr. Kasturirangan to conserve and protect the biodiversity of



Western Ghats while allowing for sustainable and inclusive development of the region.

• The Committee had recommended that identified geographical areas falling in the six States of Kerala, Karnataka, Goa, Maharashtra, Gujarat and Tamil Nadu may be declared as Ecologically Sensitive Areas.

## **About Ecological Sensitive Areas**

• It is referred to as those areas which have been notified by the Ministry of Environment, Forests and Climate Change as areas around the Wildlife Sanctuaries, National Parks and Protected Areas as requiring more protection due to their sensitiveness.

#### **Objectives**

a. It helps to **manage and regulate the activities** around these areas to create some **kinds of shock absorbers.** It also **helps to provide for a transition zone** between the **highly protected and relatively less protected areas**.

b. To give effect to Section 3(2) (v) of the Environment Protection Act, 1986 which restricts the operation of industries or processes to be carried out in certain areas or to maintain certain safeguards to operate industries.

**Topic- GS Paper 3-Environment** 

**Source- The Hindu** 

#### **Emergency Credit Line Guarantee Scheme**

Why is in the news?

Recently the **Union Cabinet** has approved additional funding of up to **Rs. 3 lakh crores** through **the introduction of Emergency Credit Line Guarantee Scheme.** 

## **About the Emergency Credit Line Guarantee Scheme**

- It has been **formulated as a specific response** to the unprecedented situation **caused by COVID-19** and the **consequent lockdown**, which has **severely impacted manufacturing** and other **activities in the MSME sector.**
- The salient features of the Scheme include all MSME borrower accounts with outstanding credit of up to Rs. 25 crores as on 29.2.2020 and with an annual turnover of up to Rs. 100 crore would be eligible for GECL funding under the Scheme.
- The Scheme would be applicable to all loans sanctioned under GECL during the period from the date of announcement of the Scheme to 31.10.2020, or till an amount of three lakh crore is sanctioned under the GECL, whichever is earlier.



**Topic- GS Paper 3-Economics** 

**Source-PIB** 

Scheme for Formalization of Micro Food Processing Enterprises

Why is in the news?



• Union Cabinet has given its approval for Formalization of Micro Food Processing Enterprises for the Unorganized Sector on All India basis with an outlay of Rs. 10 thousand crores.



About the scheme for the formalization of Micro Food Processing Enterprises

- It is a **Centrally Sponsored Scheme** for the **Unorganized Sector on All India** basis.
- The expenditure of the scheme will be shared by the Government of India and the States in the ratio of 60:40.

## The Objectives of the scheme are

- a. Increase in access to finance by micro food processing units.
- b. Increase in revenues of target enterprises.
- c. Enhanced compliance with food quality and safety standards.
- d. The transition from the unorganized sector to the formal sector.
- e. Special focus on women entrepreneurs and Aspirational districts.
- f. Strengthening capacities of support systems.
- g. Focus on minor forest produce in Tribal Districts.
- The scheme will be implemented over 5 years from 2020-21 to 2024-25.
- The **State/UT Government** will notify a **Nodal Department and Agency for implementation** of the Scheme.

**Topic- GS Paper 3-Economics** 

Source-PIB

# RBI announces nine additional measures for strengthening the Economy Why is in the news?

• RBI Governor has recently announced nine measures to smoothen the flow of finance and preserve financial stability in the turbulent and uncertain times ushered in by the COVID-19 pandemic.





This follows the earlier sets of measures announced by RBI on April 17, 2020, and on March 27, 2020. These measures are:

## 1. Repo rate has been reduced by 40 basis points

- The repo rate has been reduced by 40 basis points from 4.4% to 4.0%.
- The Marginal Standing Facility rate and the Bank rate have been reduced from 4.65% to 4.25%.
- The reverse repo rate has been reduced from 3.75% to 3.35%.

## 2. Refinance Facility to SIDBI extended for another 90 days

- To enable the increased supply of affordable credit to small industries, the RBI had, on April 17, 2020, announced a special refinance facility of ₹15,000 crores to SIDBI at RBI's policy repo rate for 90 days.
- This facility has now been extended by another 90 days.

# 3. Relaxation of Rules for Foreign Portfolio Investment under Voluntary Retention Route

- The **Voluntary Retention Route** is an investment window provided by RBI to Foreign Portfolio Investors, which provides easier rules in return for a commitment to make higher investments.
- The rules stipulate that at least 75% of the allotted investment limit be invested within three months; considering the difficulties being faced by investors and their custodians, the time limit has now been revised to six months.

## 4. Measures to Support Exports and Imports

• The maximum permissible period of pre-shipment and post-shipment export credit sanctioned by banks to exporters has been increased from the existing one year to 15 months, for disbursements made up to July 31, 2020.

## 5. Loan facility to EXIM Bank

- The Governor has announced a line of credit of ₹15,000 crores to the EXIM Bank, for financing, facilitating and promoting India's foreign trade.
- The loan facility has been given for 90 days, with a provision to extend it by one year.
- The loan is being given to enable the bank to meet its foreign currency resource requirements, especially in availing a US dollar swap facility.

#### 6. More time for Importers to Pay for Imports

- The time period for import payments against normal imports (i.e. excluding import of gold/diamonds and precious stones/jewellery) into India has been extended from six months to twelve months from the date of shipment.
- This will be applicable for imports made on or before July 31, 2020.

## 7. Credit Extension

• The maximum credit which banks can extend to a particular corporate group has been increased from 25% to 30% of the bank's eligible capital base.

## 8. Provision to convert Interest on Working Capital into Interest Term Loan

• Lending institutions have been allowed to convert the accumulated interest on working capital facilities over the total deferment period of 6 months (i.e. March 1, 2020, up to August 31, 2020) into a funded interest term loan, to be fully repaid during the current financial year, ending March 31, 2021.

#### 9. Time period extended

• The time period for import payments against normal imports into India has been extended from six months to twelve months from the date of shipment.

#### **Topic- GS Paper 3-Economics**

**Source- The Hindu** 

Second Addendum on Protocol on Inland Water Transit and Trade between India and Bangladesh, 2020

Why in the news?



• Recently India and Bangladesh have added five more "ports of call" on either side and increased the protocol (water) routes from 8 to 10 which help to boost trade, economic activity and connectivity.



# About the 2nd Addendum on Protocol on Inland Water Transit and Trade Routes:

- The number of **Indo Bangladesh Protocol (IBP) routes** are being increased from **8 to 10, and new locations** are also added to the existing routes: -
- a. The inclusion of Sonamura- Daudkhandi stretch of Gumti river as IBP route No. 9 & 10 in the Protocol will improve the connectivity of Tripura and adjoining States with Indian and Bangladesh's economic centres. This route shall be connecting all existing IBP routes from 1 to 8.
- b. Rajshahi-Dhulian-Rajshahi Routes and its extension up to Aricha
- It will help the augmentation of infrastructure in Bangladesh as it would reduce the transportation cost of stone chips/aggregate to the northern part of Bangladesh through this route.
- It will also decongest the **Land Customs Stations** on both sides.
- c. Ports of Call
- Port of call means an intermediate stop for a ship on its scheduled journey for cargo operation or taking on supplies or fuel.
- The new five "ports of call" on the Indian side are Dhulian, Maia, Jogigopha, Kolaghat and Sonamura and on the Bangladesh side Rajshahi, Sultanganj, Chilmari, Daudkandi and Bahadurabad.
- d. Newly added Ports of Call
- Inclusion of **Jogigopha in India** and **Bahadurabad in Bangladesh** as new Port of Call will provide **connectivity to Meghalaya, Assam and Bhutan**.
- These new Ports of Call would enable the loading and unloading of cargo transported on the Indo Bangladesh Protocol Route and provide a stimulus to the economic development of the new locations and their hinterland.





#### **About the Protocol on Inland Water Transit**

- This Protocol, which was first **signed in 1972** (immediately after independence of Bangladesh), is a reflection of **shared history and friendship** between the two countries.
- It was last **renewed in 2015 for five years** with a provision for its **automatic renewal for a further period of five years**, giving **long term assurance to various stakeholders.**



**Topic- GS Paper 3-Infrastructure** 

Source- PIB

9th Edition of the 'Status Paper on Government Debt' released



### Why in the news?

• Recently, the **Central Government** has released the **9th Edition of the "Status Paper on the Government Debt".** 



# Government of India

### **Highlights of 9th Status Paper on Government Debt**

- It covers details of the financing operations of fiscal deficit of the Central Government during the year 2018-19.
- The document also contains the **Debt Management Strategy of the Central Government** for the **financial years from 2019-20 to 2021-22**, which will guide the **borrowing plan of the Government**.
- The **central government's as a percentage of gross domestic product dropped** marginally by 0.1% from 45.8% in 2017-18 to 45.7% financial year 19.
- General Government Debt (GGD)-GDP ratio worked out to 68.6 per cent at end-March 2019, slightly lower compared to 68.7 per cent at end-March 2018.
- Domestic Debt is around 94.1% of the Centre's liabilities in FY19.Out of this, 84.4% of the domestic Debt was made up of marketable securities.
- Public Debt in India is primarily contracted at fixed interest rates, with floating internal Debt constituting 0.9 per cent of GDP at end-March 2019.
- The tenure of the **longest security was 37 years**.
- The IP-RR ratio (interest payments to revenue receipts) of the Centre was 37.5 per cent in 2018-19 as compared to 35.6 per cent in 2012-13.
- The average interest cost (AIC) for the Centre remained unchanged over Financial Year 18 to 19 at 7.1%.
- Thus, nominal GDP growth net of AIC was 3.9% in Financial Year 19. However, this was within the limits of sustainable debt parameters.

### **About Status Paper on Government Debt**

- The Central Government has been bringing-out a Status Paper on Government Debt since 2010-11.
- It provides a **detailed analysis of the Overall Debt Position** of the **Government of India**.
- It enhances transparency by providing a detailed account of debt operations during the year.
- Since 2015-16, the publication also includes, "Handbook of Statistics on Central Government Debt" and "Debt Management Strategy", which was subsumed in the Status paper, thus bringing all public debt-related information at one place.



• The Central Government Debt includes all liabilities of Central Government contracted against the Consolidated Fund of India (defined as Public Debt), and liabilities in the Public Account, called Other Liabilities.

Public Debt is further classified into internal and external Debt.

- Marketable Debt comprises of Government dated securities and Treasury Bills, issued through auctions.
- Non-marketable debt comprises of intermediate Treasury Bills (14-day ITBs) issued to State Governments/ UT of Puducherry and select Central Banks, special securities issued against small savings, special securities issued to public sector banks/ EXIM Bank, securities issued to international financial institutions, and compensation and other bonds.

**Topic- GS Paper 3-Economics** 

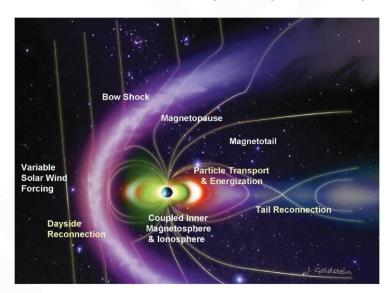
**Source-ET** 

**Science and Technology** 

Earth's Magnetosphere

### Why in the news?

• Scientists at the Indian Institute of Geomagnetism have developed a generalized one-dimensional fluid simulation code capable of studying a broad spectrum of coherent electric field structures in near-earth plasma environment or earth's magnetosphere, which can be useful in the planning of future space missions.



### **About Earth's Magnetosphere**

- The magnetosphere is the region of space surrounding Earth, where the dominant magnetic field is the Earth's magnetic field, rather than the magnetic field of interplanetary space.
- The magnetosphere is formed by the interaction of the solar wind with Earth's magnetic field.
- The **boundary between the solar wind** and **Earth's magnetic field** is called the **magnetopause**.
- The **boundary is continuously in motion** as the ever-changing solar wind buffets Earth.
- While the magnetopause shields us to some extent from the solar wind, it is far from impenetrable, and energy, mass, and momentum are transferred from the solar wind to regions inside Earth's magnetosphere.



- The interaction between the solar wind and Earth's magnetic field, and the influence of the underlying atmosphere and ionosphere, creates various regions of fields, plasmas.
- Almost 99% of matter in the universe is in the form of plasma, Earth's magnetosphere, too, contains this material.
- The conditions inside the **magnetosphere are highly dynamic** and **create a "space weather"** that **can affect technological systems** and **human activities** such as:
- The radiation belts can have impacts on the operations of satellites.
- The particles and currents from the magnetosphere can heat the upper atmosphere and result in satellite drag that can affect the orbits of low-altitude Earth-orbiting satellites.
- Influences from the magnetosphere on the ionosphere can also affect communication and navigations systems.

### **Background**

- It has been several thousand years since the Chinese discovered that certain magnetic minerals, called lodestones, would align in roughly
- the north-south direction.
- The reason for this effect wasn't understood, though, until 1600, when William Gilbert published De Magnete and demonstrated that our Earth behaved like a giant magnet and loadstones were aligning with Earth's magnetic field.

  Note:
- In **January 2019 British Geological Survey** reported that the earth's magnetic north pole is moving **from its current position in Canada to Siberia**.
- The **shift is causing geophysicists** to reconsider the **world magnetic model**, which is **used for navigation purposes.**

Topic- GS Paper 3-Science and technology Source- PIB + www.swpc.noaa.gov Microwave Steriliser 'ATULYA'

### Why in the news?

• To strengthen India's fight against the COVID-19 pandemic, the Ministry of Defense has launched a microwave sterilizer named as 'ATULYA' to disintegrate (COVID-19).



**About Microwave Steriliser 'ATULYA'** 



- It is developed by the Defence Institute of Advanced Technology, Pune, which is a deemed university supported by the Defence Research and Development Organization.
- It is designed to disintegrate the COVID-19 virus by differential heating in the range of 56 to 60oC temperatures.
- It is a cost-effective solution that can be operated in portable or fixed installations.

**Topic- GS Paper 3-Science and technology Source- PIB** 

**Pulse oximeter** 

### Why in the news?

• As healthcare systems around the world struggle to test as well as treat people for Covid-19, some experts have advocated the use of a medical device called the 'pulse oximeter' for testing those who have the disease, or those suspected of having it.

### What is a pulse oximeter?

- "Pulse oximetry is a test used to measure the oxygen level (oxygen saturation) of the blood.
- It is an easy, painless measure of how well oxygen is being sent to parts of your body furthest from your heart, such as the arms and legs.
- The device is generally used to **check the health of patients** who have **known conditions** that **affect blood oxygen levels**, such as **heart and lung conditions**, and for those who **show symptoms such as shortness of breath.**
- The device measures the saturation of oxygen in red blood cells and can be attached to a person's fingers, toes, nose, feet, ears, or forehead.
- It can be reused or disposed of after use.



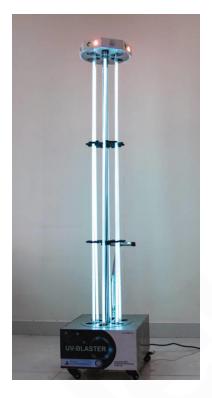
Topic- GS Paper 3-Science and Technology Source- Indian Express

**UV** disinfection tower

### Why in the news?

• The **Defence Research and Development Organisation (DRDO)** has **developed** an ultraviolet (UV) disinfection tower for rapid and chemical-free disinfection of high infection-prone areas.





### **About Ultraviolet (UV) Disinfection Tower**

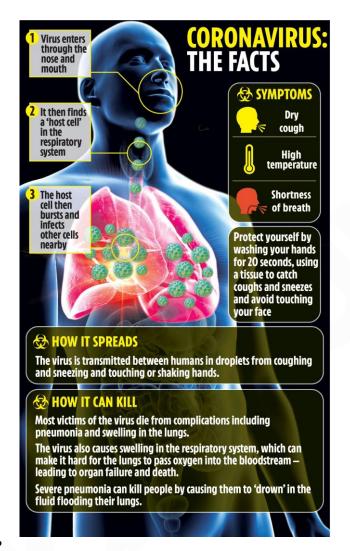
- It was designed and developed by Laser Science & Technology Centre (LASTEC) based in Delhi with the help of New Age Instruments and Materials Private Limited, Gurugram.
- The equipment named **UV blaster is a UV based area sanitizer** for rapid and chemical-free disinfection of high infection-prone areas.
- It is useful for high tech surfaces like electronic equipment, computers, and other gadgets in laboratories and offices that are not suitable for disinfection with chemical methods.
- It is also effective for areas with a large flow of people, such as airports, shopping malls, metros, hotels, factories, offices, etc.
- The **UV based area sanitizer** may be used by **remote operation through laptop/mobile** phone **using wifi link.**

Topic- GS Paper 3-Science and Technology Source- The Hindu Silent hypoxia, puzzle among doctors

### Why in the news?

• As medical practitioners around the world are busy treating people for Covid-19, many have reported a condition called **'silent' or 'happy' hypoxia**, in which patients have **extremely low blood oxygen levels, yet do not show signs of breathlessness.** 





### What is hypoxia?

- Hypoxia is a condition wherein there is not enough oxygen available to the blood and body tissues.
- Hypoxia can either be **generalized, affecting the whole body**, or local, affecting a region of the body.

### What is silent hypoxia?

- It is a **serious medical condition** found in **severe Covid-19 patients** is preceded by **'silent hypoxia,'** a form of **the oxygen deprivation** that is **harder to detect** than regular hypoxia.
- In 'silent' or 'happy' hypoxia, patients appear to be less in distress. Many Covid-19 patients, despite having oxygen levels below 80 percent, look fairly at ease and alert, according to multiple reports.
- This phenomenon has puzzled several medical practitioners.

### **Reasons for Hypoxia**

- According to Dr. Levitan, this happens because, in patients with Covid pneumonia, the virus causes air sacs to fall, leading to a reduction in levels of oxygen. However, the lungs initially do not become stiff or heavy with fluid and remain "compliant" being able to expel carbon dioxide and avoiding its buildup.
- Thus, patients do not feel short of breath.



# **Topic- GS Paper 3-Science and Technology Source- Indian Express**

### Llamas vs. COVID-19

### Why in the news?

• Recently, the **researchers** at the **University of Texas at Austin** have found in a **Ilama named Winter** an **unlikely ally in the hunt for an effective treatment** for COVID-19.



### How does it work?

- The researchers linked two copies of a special kind of antibody produced by llamas and created a new antibody, which binds tightly to a key protein on the novel coronavirus SARS-CoV2.
- This **protein is the spike protein**, **shaped like a corona (crown)** that gives coronaviruses their name.
- It is also the protein that allows the virus to break into human and animal cells.
- Initial tests with the **new antibody and cultured cells indicated the antibody blocks viruses** with this **spike protein from infecting cells**.

### **About Llama**

• The Llama is a domesticated South American camelid, widely used as a meat and pack animal by Andean cultures since the Pre-Columbian era.



• Llamas are very social animals and live with others in a herd. Their wool is very soft and lanolin-free.

### **Distribution:**

These are no longer found in the wild.



- They are now distributed throughout North America, Europe, Australia, Argentina, Ecuador, Chile, Bolivia, and Peru.
- Currently, nearly 70% of Ilamas are found in Bolivia.

**Topic- GS Paper 3-Science and Technology Source- The Hindu** 

### Vizag gas leak tragedy

### Why in the news?

• A gas leak, reminiscent of the 1984 Bhopal tragedy, has recently claimed at least 11 lives and affected thousands of residents in five villages in Visakhapatnam in Andhra Pradesh. The source of the leak was a styrene plant owned by South Korean electronics giant LG, located at RRV Puram near Gopalapatnam, about 15 km from the coastal city.



### **About the Styrene Gas**

- It is a **flammable liquid** that is used in the manufacturing of polystyrene plastics, fiberglass, rubber, and latex.
- It is also found in vehicle exhaust, cigarette smoke, and in natural foods like fruits and vegetables.

### Implications of exposure to styrene:

- a. Short-term exposure: It can result in respiratory problems, irritation in the eyes, irritation in the mucous membrane, and gastrointestinal issues.
- b. Long-term exposure: It could drastically affect the central nervous system and lead to other related problems like peripheral neuropathy.
- c. It could also lead to cancer and depression in some cases.

### **Symptoms**

• Headache, hearing loss, fatigue, weakness, difficulty in concentrating, etc.

Topic- GS Paper 3-Science and Technology Source- The Hindu African Swine Fever



### Why in the news?

Recently over **2,900 pigs have died in Assam** due to **African Swine Fever (ASF)**, which does not **affect humans** but can be **catastrophic for pigs**, which are **the first time reported in India**.

### **About African Swine Fever**

- It is a severe viral disease that affects wild and domestic pigs, typically resulting in an acute hemorrhagic fever.
- The disease has a case fatality rate (CFR) of about 100 percent.
- Its **routes of transmission** include direct contact with **an infected or wild pig** (alive or dead), **indirect contact** through **the ingestion of contaminated material** such as food waste, feed or garbage, or through biological vectors such as ticks.
- It is less infectious than other animal diseases such as foot-and-mouth disease.
- It does not affect human beings.
- The disease is characterized by the 'sudden deaths of pigs.'



### **About Classical Swine Fever (Hog cholera)**

- It is a viral disease related to pigs, which is highly contagious and usually spreads by infectious meat or meat products consumption by Pigs or contact of healthy Pigs with infected pigs or their faeces or body fluids, etc.
- It is also not known to **affect humans**.
- It is different from Swine Flu, which affects humans too.

Topic- GS Paper 3-Science and Technology Source- The Hindu Antibodies hmAbs

### Why in the news?

• Recently CSIR, through its New Millennium Indian Technology Leadership Initiative (NMITLI) program, approves a multi-institutional project to develop human monoclonal antibodies (hmAbs) that can neutralize SARS-CoV-2 in patients.





### About the NMITLI program

• The project will be implemented by the National Centre for Cell Science (NCCS), IIT-Indore, and PredOmix Technologies Pvt. Ltd. with Bharat Biotech International Ltd., as the commercialization partner.

### **Aim of the Project**

- The project aims to generate hmAbs to SARS-CoV-2 from the convalescent phase of COVID-19 patients and select high affinity and neutralizing antibodies.
- The project also aims to anticipate future adaptation of the virus and generate hmAbs clones that can neutralize the mutated virus so that it could be readily used for combating future SARS-CoV infections.
- BBIL will be the **commercial partner** and **responsible for subsequent development** and **commercialization of the hmAbs generated.**

Topic- GS Paper 3-Science and Technology

**Source- The Hindu** 

HR 6819: The Earth's closest black hole

### Why in the news?

• Recently the researchers have discovered the closest black hole to Earth known as HR 6819, which is at least 4.2 times the mass of the Sun, is gravitationally bound to two stars in a so-called triple system.





### About HR 6819

- It is also known as **HD 167128 or QV Telescopii,** is a **triple star system** in the **southern constellation of Telescopium**, which is **1,120 light-years from the Sun**Sun.
- It can be seen from Earth's southern hemisphere with the naked eye in the constellation Telescopium.
- HR 6819 is a hierarchical triple containing a classical be star in a wide orbit of the unknown period, a B3 III star, and a non-emitting (non-accreting) black hole, designated Ab.
- These are the **extraordinarily dense objects** possessing **gravitational pulls** so **powerful** that not **even light can escape.**
- Some are monstrous like the one at our galaxy's center 26,000 light-years from Earth that is four million times the Sun'sSun's mass.

**Topic- GS Paper 3-Science and Technology** 

**Source- The Hindu** 

'Immunity passports' and the 'Release certificates'

### Why in the news?

- Chile has recently announced that it would push for "release certificates" for those individuals who had recovered from Covid-19.
- The certificate would not prove immunity to the virus but instead, be issued to those who had finished a mandatory quarantine after testing positive for the disease.
- Other countries such as the **UK**, **Italy**, **and Germany** have also considered **issuing** "**immunity passports**" and "**risk-free certificates**."

### **About immunity certificates**

- These certificates are based on the idea that the natural immunity a person develops to any infection will protect them from contracting the disease again.
- Once infected with a **viral pathogen**, the **body's innate immune response** kicks in, which **slows the spread of the virus** and **potentially helps** not lead to any symptoms.



### **About immunity certificates**

- These certificates are based on the idea that the natural immunity a person develops to any infection will protect them from contracting the disease again.
- Once infected with a **viral pathogen**, the **body's innate immune response** kicks in, which **slows the spread of the virus** and **potentially helps** not lead to any symptoms.



- An "adaptive response then follows this response", wherein the **body makes** antibodies, which bind to the virus and help eliminate it.
- If this response is strong enough, it may even prevent re-infection from the same pathogen.

### **Concern issue**

- World Health Organization (WHO) warned against using such certificates since there was no evidence yet that a person infected with Covid-19 could not get the infection again.
- There is currently no evidence that people who have recovered from Covid-19 and have antibodies are protected from a second infection.

### Difference between Immunity certificates Vs. Vaccine certificates

- The immunity passports are fundamentally different from vaccine certificates since the former incentivizes infection, and the latter incentivizes getting vaccinated.
- Vaccine certificates may be an effective way to start lifting physical distancing measures, but this can also be implemented once a vaccine is ready.

### **Topic- GS Paper 3-Science and Technology**

**Source- The Hindu** 

**Defense Research Ultraviolet Sanitiser** 

### Why in the news?

Recently a Hyderabad-based Defence Research and Development Organisation (DRDO) premier lab, Research Centre Imarat (RCI), has developed Defence Research Ultraviolet Sanitiser devices.



### **About Defence Research Ultraviolet Sanitiser (DRUVS)**

- It is an automated contactless UVC sanitizing cabinet.
- It has been designed to sanitize mobile phones, iPads, laptops, currency notes, cheques, challans, passbooks, paper, envelopes, etc.

### Other devices developed by Research Centre Imarat (RCI):

**✓ NOTESCLEAN** 



• It is an **automated UVC currency sanitizing device** which picks the note inserted from the **input slot** and **makes them pass through a series of UVC lamps** for **complete disinfection.** 

### **Topic- GS Paper 3-Science and Technology**

**Source-Indian Express** 

# **COaVID KAVACH ELISA: India's first indigenous antibody-based testing kit** Why in news?

• National Institute of Virology, Pune, has recently developed the first indigenous antibody-based ELISA test kit - COaVID KAVACH for diagnosis of novel Corona Virus.

### **About the ELISA Test**

• The ELISA stands for enzyme-linked immunoassay which is a commonly used laboratory test to detect antibodies in the blood.

### **Significance**

- The kit has displayed high sensitivity and accuracy in the validation tests at different sites.
- It can test around 90 samples in approximately two and a half hours.

### Note:

• ICMR-National Institute of Virology (NIV), Pune is the apex laboratory of the country with state-of-art infrastructure and expertise for research in virology.

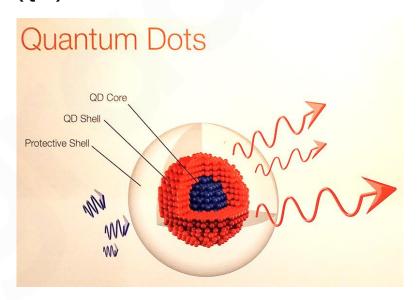
### **Topic- GS Paper 3-Science and Technology**

**Source- The Hindu** 

### **Quantum Dots**

### Why is in the news?

• Recently researchers at the **Agharkar Research Institute (ARI)**, **Pune** have developed a new process for the **synthesis of quantum efficient and biocompatible quantum dots (QDs).** 



### About biocompatible quantum dots

- It is used in capturing images of cellular organelles and processes within the visible wavelength ranges across the electromagnetic spectrum.
- Currently, bioimaging applications such as visualisation of cellular organelles, tracking cellular processes, etc. are reliant on traditional fluorophores which are fluorescent chemical compounds that can re-emit light upon excitation.

### What are quantum dots?



- Quantum dots are semiconductor particles with typical diameter of 2-10 nm.
- Quantum dots (QDs) are man-made nanoscale crystals that that can transport electrons.
- Quantum dots **emit light via this mechanism**: under **external stimulus**, some of the **electrons of the dot material absorb sufficient energy to escape their atomic orbit.**
- When **Ultraviolet light** hits these **semiconducting nanoparticles**, they can emit light of various colours.
- These **artificial semiconductor nanoparticles** that have found applications in composites, **solar cells**, **and fluorescent biological labels**.
- It can also be used as active materials in single-electron transistors.

# Topic- GS Paper 3-Science and Technology Source- Science Daily +PIB

### **COBAS 6800 testing machine**

Why in the news?

• Union Minister of Health & Family Welfare has recently dedicated the COBAS 6800 testing machine to the nation.



### **About the COBAS 6800 testing machine**

• It is the **first testing machine** that has been procured by the **Government for testing of COVID-19 cases** and is installed at the **National Centre for Disease Control.** 

### **Features**

- It is a fully automated, high-end machine for performing real-time PCR testing COVID-19 in the Service of the nation.
- COBAS 6800 will provide quality, high-volume testing with a high throughput of test around 1200 samples in 24 hours.
- The **machine requires a minimum BSL2+ containment level** for testing; it cannot be placed at just any facility.
- COBAS 6800 can also **detect other pathogens like Viral Hepatitis B & C, HIV, MTb** (both rifampicin and isoniazid resistance), **Papilloma, CMV, Chlamydia, Neiserreia** etc

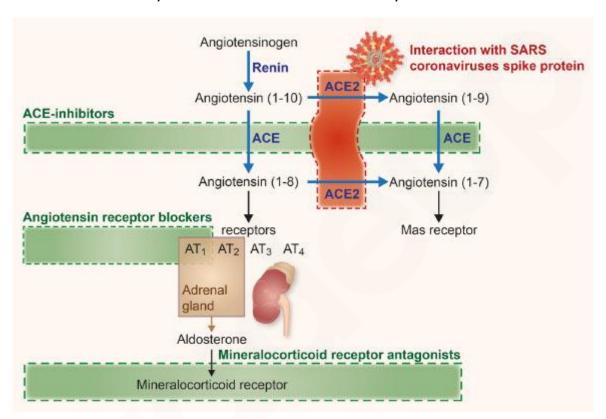


### **Source-PIB**

### **Angiotensin-Converting Enzyme 2(ACE2)**

### Why in the news?

• According to a study, ACE-2 enzymes are responsible for why men seem to be more vulnerable to Covid-19 than women. According to the survey, men have higher levels of the angiotensin-converting enzyme 2 (ACE2), which is a protein in the blood that Sars-CoV2, the virus that causes Covid-19, uses to enter human cells.



### **About Angiotensin-Converting Enzyme 2(ACE2)**

- It is an **enzyme molecule** that connects the **inside of our cells** to the outside **via the cell membrane.**
- It is found not only in lungs, but also the heart, kidneys and tissues lining blood vessels, and there are particularly high levels in the testes.
- The enzyme essentially acts as a port of entry that allows the coronavirus to invade our cells and replicate.

### How will it work?

- ACE2 is a receptor on the surface of cells which binds to the coronavirus and allows it to enter and infect healthy cells after it is has been modified by another protein on the surface of the cell, called TMPRSS2.
- High levels of ACE2 are present in the lungs and, therefore, it is thought to play a crucial role in the progression of lung disorders related to Covid-19.

**Topic- GS Paper 3-Science and Technology** 

**Source- The Hindu** 

**EventBot: A new Malware** 

Why in the news?



According to the Computer Emergency Response Team of India (CERT-In), Android users who use mobile banking might be vulnerable to a new malware called 'EventBot'.



### **About the EvenBot**

- It is a **mobile-banking Trojan** and **info-stealer** that abuses **Android's in-built accessibility features** to steal user data from **financial applications**, read user SMS messages and intercept SMS messages, allowing malware to **bypass two-factor authentication**.
- A **Trojan virus** often **enters a device** by **cheating the user** into believing that it is **software the user needs.**
- It then attacks the **operating system from within**.
- According to the CERT-In, the virus "largely targets financial applications like Paypal Business, Revolut, Barclays, UniCredit, CapitalOne UK, HSBC UK, TransferWise, Coinbase, Paysafecard etc.

### **About Computer Emergency Response Team of India (CERT-In)**

- It was **established in 2004** as an attached office within the **Ministry of Electronics** and **Information Technology.**
- It is the **nodal agency** to deal with **cybersecurity threats like hacking and phishing**.

# **Topic- GS Paper 3-Science and Technology Source- The Hindu**

### Less invasive surfactant administration technique

### Why in the news?

• Recently the **medical technique**, known as **less invasive surfactant administration (LISA)**, has been started at **J.K. Lon Government Children's Hospital** here for **treatment of lung disease** or **respiratory distress syndrome** among **premature babies**.





### **About the Less invasive surfactant administration technique:**

- It has been developed as a **lung-protective strategy for respiratory management** and ventilation in view of the **mechanical ventilation causing damage to the preterm lungs of newborns.**
- Infants considered suitable for LISA are those being managed with **primary CPAP or high flow** with the evidence of **increasing respiratory distress** and with a **rising oxygen requirement.**
- This new technique's main objective was to **minimise damage to the fragile premature lungs.**

**Topic- GS Paper 3-Science and Technology Source- The Hindu** 

### Next-generation biodegradable metal implants

### Why in the news?

• Scientists at the International Advanced Research Centre for Powder Metallurgy and New Materials (ARCI) and Sree Chitra Tirunal Institute of Medical Sciences have jointly developed new generation Iron-Manganese based alloys for biodegradable metal implants for use in humans.





### How does it work?

- A biodegradable material (Fe, Mg, Zn, and polymer) degrades gradually during the healing process by maintaining the integrity and without leaving any implant residues in the human body.
- They are **better alternatives** to currently **used metallic implants** which **remain permanently** in the human body.
- Such metallic implants can cause long-term side effects like systemic toxicity, chronic inflammation, and thrombosis.

### Composition

- This Iron-Manganese based alloy Fe-Mn contains more than 29% Mn by weight.
- It is a promising biodegradable metallic implant which exhibits a single austenitic phase (a non-magnetic form of iron) with MRI compatibility.

**Topic- GS Paper 3-Science and Technology** 

Source- AIR

### **Preparing for a syndemic**

Why is in the news?

• The **World Health Organization** has announced that COVID-19 will likely **be syndemic.** 





### **About Syndemic**

- Syndemic is a situation when two or more epidemics interact synergistically to produce an increased burden of disease in a population. Example
- When the diseases like dengue and malaria emerging with the upcoming monsoon season in tropical South Asia, there is a possibility that the world will face an increased burden of the diseases and thus the situation of a syndemic.
- It is a **situation first** described by **medical anthropologist Merrill Singer** in the **mid-1990s.**

### Classification of Diseases based on spread and occurrence Pandemic

- A pandemic is declared when a new disease for which **people do not have immunity spreads** around the **world beyond expectations**.

  Epidemic
- An epidemic is a large outbreak, one that spreads among a population or region. It is less severe than pandemic due to a limited area of spread. Endemic
- A disease is called endemic when the presence or usual prevalence of its infectious agent is constant within a given geographical area or population group.

# **Topic- GS Paper 3-Science and Technology Source- The Hindu**

### Rht14 and Rht18 dwarfing genes

### Why is in the news?

• Recently the scientists at Pune based Agharkar Research Institute (ARI) have mapped two alternative dwarfing genes Rht14 and Rht18 in wheat.

### About the dwarfing genes

- These **genes** are associated with better seedling vigour and longer coleoptiles (sheath protecting the young shoot tip).
- They have mapped the dwarfing genes on chromosome 6A in durum wheat, and DNA-based markers were developed for a better selection of these genes in wheat breeding lines.
- The **DNA-based markers** will **help wheat breeders** to precisely select **wheat lines** carrying these alternative dwarfing genes from a massive pool of wheat



breeding lines. These DNA based markers are being used at ARI for marker-assisted transfer of these genes in Indian wheat varieties.



### **Benefits**

- It helps in **controlling pollution because in India**, close to **twenty-three million tonnes** of leftover **rice residues** are annually burnt by farmers to get rid of the straw and prepare their fields for sowing wheat.
- The dry environments pose a challenge for the germination of wheat varieties with short coleoptile.

**Topic- GS Paper 3-Science and Technology Source- Down to Earth** 

### Sonic boom

Why is in the news?

- Recently the **'loud sound'** heard in **Bengaluru** which was revealed to have **emanated** from an Indian Air Force test flight involving a supersonic profile.
- The sound effect caused due to such high-speed flights is known as 'sonic boom'.



**About Sonic Boom** 



- It is the sound associated with the shock waves created whenever an object travels through the air faster than the speed of sound.
- Sonic booms generate enormous amounts of sound energy, sounding similar to an explosion or a thunderclap to the human ear.
- The sonic boom was probably heard while the aircraft was decelerating from supersonic to subsonic speed between 36,000- and 40000-feet altitude."
- Sonic booms **due to large supersonic aircraft** can be particularly **loud and startling,** tend to awaken people, and may cause minor damage to some structures.

### **Notes:**

- Sound travels in the form of waves which are emitted outwards from its source.
- In the air, the **speed of these** waves depends on **a number of factors**, such as the **temperature of the air and altitude.**

**Topic- GS Paper 3-Science and Technology Source- AIR** 

### **SpaceX Demo-2 mission**

### Why is in the news?

• Recently on May 27, NASA's SpaceX Demo-2 test flight will lift off for International Space Station (ISS), becoming the first crewed flight to launch from American soil since the conclusion of the space shuttle era in 2011.



### What is the mission?

- The **Demo-2 mission** is part of **NASA's Commercial Crew Program** and will **see** astronauts Robert Behnken and **Douglas Hurley fly on SpaceX's Crew Dragon** spacecraft. The craft will lift off from a **Falcon 9 rocket, from Florida**.
- NASA's Commercial Crew Program has worked with several American aerospace industry companies to facilitate the development of US human spaceflight systems since 2010, to develop reliable and cost-effective access to and from the ISS.
- It is a flight test to **certify if SpaceX's crew transportation system** can be used to **ferry crew** to and from the **space station regularly**.



- This is the final flight test for the system and intends to validate its different components, including the spacecraft (Crew Dragon), the launch vehicle (Falcon 9), the launch pad (LC-39A) and the operations capabilities.
- After its launch, the **Crew Dragon** will perform a **series of phasing manoeuvres** to gradually **approach and autonomously dock** with the ISS on May 28. **Note:**
- Boeing and SpaceX were selected by NASA in September 2014 to develop transportation systems meant to transfer crew from the US to the ISS.
- These integrated spacecraft, rockets and associated systems will carry up to four astronauts on NASA missions, maintaining a space station crew of seven to maximize time dedicated to scientific research on the orbiting laboratory.

**Topic- GS Paper 3-Science and Technology Source- The Hindu** 

**Ecology and Environment World Migratory Bird Day** 

### Why in the news?

- Recently the **World Migratory Bird Day** has been observed on **9th May 2020.** The theme of World Migratory Bird Day is **"Birds Connect Our World."**
- The **theme underscores** the importance of **conserving and restoring** the **ecological connectivity** and **integrity of ecosystems** that support the natural cycles that are **essential for the survival** and **well-being of migratory birds.**



### **About World Migratory Bird Day**

- World Migratory Bird Day (WMBD) was initiated in 2006.
- It is a **biannual awareness-raising campaign** highlighting the need for the **protection of migratory birds and their habitats**.
- It is a **United Nations-led campaign** that aims to **raise awareness of migratory birds** and the **importance of international cooperation** to conserve them.
- It is organized by a collaborative partnership among two United Nations treaties the Convention on Migratory Species (CMS) and the African-Eurasian Migratory Waterbird Agreement (AEWA) and the Colorado-based non-profit organization, Environment for the Americas (EFTA).



### **About Flyways**

- These are the **area used by a group of birds** during their **annual cycle**, which includes their **breeding areas**, **stopover areas**, and **wintering areas**.
- There are **nine flyways** in the world, of which **three of the nine flyways pass** through **the Indian Subcontinent.**

These are:

- a. Central Asian Flyway (CAF)
- b. East Asian Australasian Flyway (EAAF)
- c. Asian East African Flyway (AEAF)

### **About Convention on the Conservation of Migratory Species of Wild Animals**

- It is an **environmental treaty** under the **aegis of the United Nations Environment Programme.**
- It is also known as **the Bonn Convention**, which provides a **global platform** for the **conservation and sustainable** use of **migratory animals** and **their habitats**.
- India is a party to the CMS since 1st November 1983.

**Topic- GS Paper 3-Environment** 

**Source- The Hindu** 

**Elongated Tortoise** 

### Why in the news?

• According to a recent study by ecologists in the **Wildlife Institute of India**, **Dehradun**, **over 90% of the potential distribution** of the **Sal forest tortoise falls** outside the current protected area's network.

### **About Elongated Tortoise**

• Its scientific name is *Indotestudo elongate* and commonly known as **Yellow Tortoise** and **Sal forest tortoise**.

### **Distribution**

• It is distributed in **Southeast Asia** and **parts of the Indian Subcontinent**, particularly **Northeast India**.

### **Conservation Status**

It is listed as **Critically Endangered** as per **IUCN Red List.** 





Topic- GS Paper 3-Environment Source- The Hindu Pinanga and Amanensis

Why is in the news?

• Recently a rare palm 'Pinang andamanensis,' has been introduced in Palode, Kerala by the Jawaharlal Nehru Tropical Botanic Garden and Research Institute which is an autonomous Institute established by the Government of Kerala.

### **About Pinanga andamanensis**

- It is a critically endangered species and one of the least known among the endemic palms of the Andaman Islands.
- It was initially described by the Italian botanist Odoardo Beccari in 1934.
- It was thought to be **extinct for an extended period.**
- It found naturally only in the South Andaman's Mount Harriet National Park.

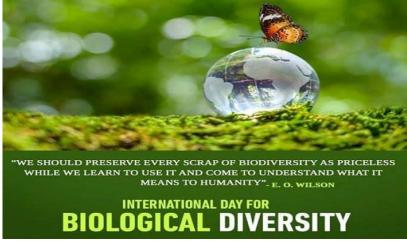




Topic- GS Paper 3-Environment Source- The Hindu International Day of Biodiversity 2020

### Why is in the news?

- Recently in a virtual celebration of the International Day for Biological Diversity 2020, Union Minister of Environment, Forest and Climate Change has launched five key initiatives towards conservation of biodiversity.
- The year 2020 which is also the "SUPER YEAR FOR BIODIVERSITY", as the Strategic Plan for Biodiversity with 20 global Aichi targets adopted in 2010 ends in 2020 and all the countries together are in the process of preparation of Post-2020 Global Biodiversity Framework.



The five initiatives are as follows:

- a. Biodiversity Samrakshan Internship Programme
- This is an initiative of **National Biodiversity Authority (NBA)** and **United Nations Development Programme.**



- The purpose of this program to **engage 20 students** with **postgraduate degrees** for a period of one year through an open, transparent, online competitive process.
- The programme wishes to engage dynamic and creative students, who are willing to learn about natural resource management and biodiversity conservation and to support the projects of NBA in various State and Union Territories.
- They also technically assist the State Biodiversity Boards/UTs Biodiversity Council in discharge of their mandates.

### b. 'Not all Animals Migrate by Choice' campaign

- The Campaign on Illegal Trafficking of Endangered Species: 'Not all Animals Migrate by Choice' was launched by the Wildlife Crime Control Bureau, with United Nations Environment Programme.
- c. Biodiversity Conservation and Biological Diversity Act, 2002
- A Webinar Series on Biodiversity Conservation and Biological Diversity Act, 2002 was also launched along with the WWF Model Conference of Parties (MCoP).

**Topic- GS Paper 3-Environment** 

**Source- The Hindu** 

**Geography Related Matters** 

Monsoons, cyclones can be predicted more accurately now

### Why in the news?

A team from IISC, Bengaluru, and the UK based the University of East Anglia have recently created a blueprint under the 'The Bay of Bengal Boundary Layer Experiment' for accurate prediction of monsoon, tropical cyclones, and other weather-related forecasts.



### About the BoBBLE (The Bay of Bengal Boundary Layer Experiment)

- It is a project funded by the Union Ministry of Earth Sciences and the Natural Environment Research Council of the UK.
- The researchers from a number of other institutions of repute from Kerala, Goa, Visakhapatnam, and Hyderabad were part of the project.
- The team has carried out studies of oceanographic properties onboard RV Sindhu Sadhana in the southern Bay of Bengal.
- After the studies, a **blueprint for future weather system observational experiments** was created for **accurately forecasting rainfall.**



Topic- GS Paper 3-Geography Source- AIR Atal Tunnel

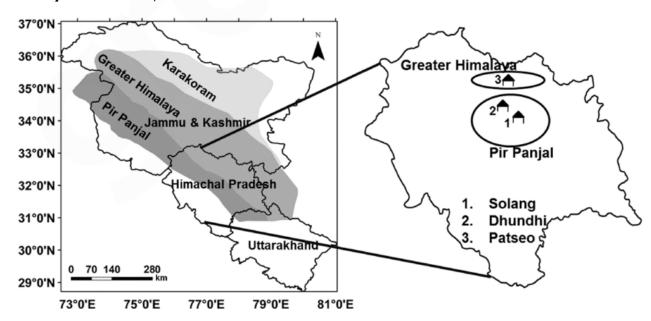
### Why in the news?

• Amid the nationwide lockdown and coronavirus outbreak, the Border Roads Organisation (BRO) has taken proactive measures to complete the work on Atal Tunnel by September 2020.



### **About Atal Tunnel**

- It is a **strategic tunnel** under **Rohtang Pass** in the **Pir Panjal Ranges of Himachal Pradesh.**
- The **8.8-kilometer-long tunnel** is the **world's longest tunnel** above an **altitude of 3,000 meters**.
- It will reduce the distance between **Manali and Leh by 46 kilometers**.
- It will be an all-weather tunnel that will connect remote areas of Lahaul and Spiti valley to the nation, even in adverse climate conditions.



Topic- GS Paper 1-Geography



### Source- AIR

### Indian and Chinese troops clash in Sikkim, Ladakh

### Why in news?

• Indian and Chinese troops have recently clashed at two points along the **Line of Actual Control Naku La sector** and in a **contested area near Pangong Tso**.

### **About the Naku La Pass**

• It is a pass in Sikkim at an altitude of more than 5,000 meters above the mean sea level.

### **Pangong Tso Lake**

- It is a long narrow landlocked lake situated at a height of more than 14,000 ft in the Ladakh Himalayas of which one-third of the lake is in Indian control while the rest of the is under Chinese control.
- The last such clash on the LAC in Ladakh took place in September 2019 on the north bank of the Pangong Lake.

### **Background:**

- The last major standoff between India and China sides took place at the Doklam plateau in 2017 when the two armies faced off against each other for 73 days.
- The India-China border dispute covers 3,488-km-long Line of Actual Control (LAC). China claims Arunachal Pradesh as part of southern Tibet while India contests it. Many rounds of talks have been held between the two sides, but these are yet to yield any result. Both sides routinely accuse each other of incursions into the other's territory due to the border not being clearly marked.

### **Topic- GS Paper 1-Geography**

### **Source- AIR**

### **River Nila**

### Why in news?

Recently, the 17th Session of Dekho Apna Desh Webinar was titled 'Exploring River Nila'

### **About River Nila**

- It is also known as Bharathappuzha (River of Bhārata), second longest river in Kerala, after the Periyar River.
- It originates from Thirumurthy Hills of Anamalais in Tamil Nadu
- It is an interstate river and lifeline water source for a population residing in four administrative districts, namely Malappuram, Thrissur and Palakkad districts of Kerala and Coimbatore, and Tiruppur of Tamil Nadu.
- It is the only river of Kerala that passes across the landmass of Western Ghats through the Palakkad Gap.

### **Tributaries**

• Kannadipuzha (Chitturpuzha), Kalpathipuzha (Korapuzha), Gayathripuzha, and Thuthapuzha are the four main tributaries of River Nila.

### **Topic- GS Paper 1-Geography**

### **Source-Indian Express**

### **Baltic travel bubble**

### Why in the news?

Recently the three **Baltic countries (Latvia, Lithuania, and Estonia)** have come up with an improvised idea called **Baltic travel bubble.** 





### **About Baltic Travel bubble**

- It will provide hassles free travel in these three countries.
- However, those who are **coming from any other than these three countries** would be required to follow **self-isolation guidelines** and stay in **quarantine for exactly 14 days.**
- Finland and Poland have also been approached to join the Baltic travel bubble.

### **About Baltic Countries**

- It is a **geopolitical term**, used to group the three sovereign states in **Northern Europe on the eastern coast** of the **Baltic Sea: Estonia, Latvia, and Lithuania.**
- The region has been part of the **European Union since 2004 and since 2007** has been a **member** of the **European Schengen Free Travel Area.**

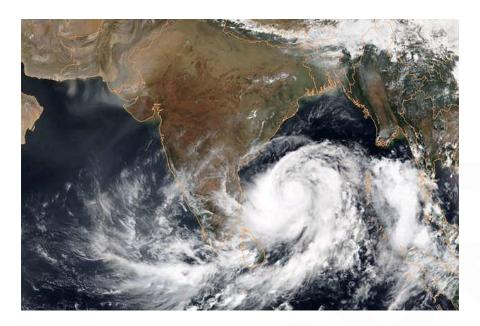
Topic- GS Paper 1-Geography Source- The Hindu

### **Cyclone Amphan**

### Why in the news?

- Recently cyclone Amphan (pronounced as Um-Pun) over the central parts of the South Bay and adjoining Central Bay of Bengal has spun into a class-topping super cyclone after howling winds around its core broke the threshold speeds.
- The India Meteorological Department (IMD) announced Amphan's elevation into a super cyclone status and has also issued an 'orange alert' for this cyclone.





### **Background**

- Amphan would be only the third super cyclone to form in the Bay after 1990.
- The first one was the Andhra Pradesh super cyclone (May 4-9, 1990, no name) which hit Machilipatnam coast in Andhra Pradesh.
- The second one was Bangladesh super cyclone (April 24-May 2, 1991, Gorky).

### **Characteristics of Super Cyclone**

- It is an **intense low-pressure system** represented on a **synoptic chart** by more than **four closed isobars (concentric circles).**
- The wind speed at surface level is 222 km/hr (category 4 or 5 as per Saffir-Simpson scale storm intensity).

### **About Colour- Coded Weather Warning**

• The **India Meteorological Department** issues **colour-coded warnings** to alert the public ahead of **severe or hazardous weather conditions** that can cause disruption or damage.

### **Different Colour Codes**

### a. Green means No warning

• In this, there is no advisory issued in such cases.

### b. Yellow means Be updated

- It indicates severely bad weather panning across several days.
- It also suggests that the weather could change for the worse, disrupting day-to-day activities

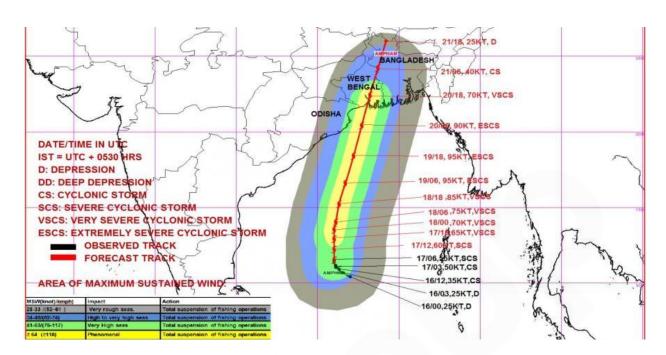
### c. Orange/ Amber means Be prepared

- It is issued as a warning of extremely bad weather with the potential of disruption.
- It is also a sign for people to prepare for evacuation and protect themselves from bad weather.

### d. Red means Take Action

- It is issued when the extremely bad weather conditions are certainly going to disrupt life
- In this case, people must take all measures to protect their families and follow the instructions of local authorities and disaster-response teams.





Topic- GS Paper 1-Geography Source- The Hindu

IMD Weather Services through UMANG Mobile App

### Why in the news?

• Recently the Ministry of Electronics and Information Technology (MeitY) has brought the India Meteorological Department (IMD) services on the "UMANG App" to enhance the initiatives of Digital India Programme.



The following seven services hosted on http://mausam.imd.gov.in web site of IMD have been on-boarded on UMANG Mobile application:

- **a. Current Weather** -Current temperature, humidity, wind speed, direction for 150 cities updated 8 times a day.
- **b. Nowcast-** Three hourly warnings of localized weather phenomena and their intensity issued for **about 800 stations**, and **districts of India by State Meteorological Centers of IMD**.



- **c. City Forecast** Past 24 hours and a 7-day forecast of weather conditions around 450 cities in India are given.
- **d. Rainfall Information-** All India district Rainfall information daily, weekly, monthly and cumulative series are available.
- **e. Tourism Forecast** Past 24 hours and a 7-day forecast of weather conditions of around 100 Tourist cities in India are provided.

### f. Warnings-

- The alert issued to warn citizens of approaching dangerous weather.
- It is colour coded in Red; Orange and Yellow are the alert levels with Red as the most severe category.

### g. Cyclone

• Cyclone warnings and alerts provide the track of cyclonic storms along with reasonable time and point of crossing of the coast.

### About the Unified Mobile Application for New-age Governance (UMANG) App

- It was launched in 2017 and developed by Ministry of Electronics and Information Technology (MeitY) and National e-Governance Division (NeGD) to drive Mobile Governance in India. It helps to bring major government services on a single mobile app, with a broader goal to make the government accessible on the mobile phone of our citizens.
- It is a Government of India all-in-one single, unified, secure, multi-channel, multi-platform, multi-lingual, multi-service mobile app, powered by a robust back-end platform providing access to high impact services of various organizations (Central and State).

### **About India Meteorological Department**

- It is an agency of the Ministry of Earth Sciences of the Government of India.
- It is the principal agency responsible for meteorological observations, weather forecasting and seismology.
- IMD is headquartered in Delhi and operates hundreds of observation stations across India and Antarctica.
- It is also one of the six Regional Specialized Meteorological Centres of the World Meteorological Organization.
- It has the responsibility for forecasting, naming and distribution of warnings for tropical cyclones in the Northern Indian Ocean region, including the Malacca Straits, the Bay of Bengal, the Arabian Sea and the Persian Gulf.

**Topic- GS Paper 1 – Geography** 

Source- The Hindu

### **Security Matters**

### **Exercise RIMPAC 2020**

### Why in the news?

- The **U.S. Navy will host the Exercise RIMPAC** (Rim of the Pacific) this year, but the drills will only **be held at sea** because of the coronavirus pandemic.
- The theme of RIMPAC 2020 is "Capable, Adaptive, Partners."





### **About the Exercise RIMPAC 2020**

• It is the world's largest international maritime warfare exercise held biennially since 1971 by the United States Navy's Indo-Pacific Command at Hawaii.

### **Objective**

• To strengthen international maritime partnerships, enhance interoperability, and improve the readiness of participating forces for a wide range of potential operations.

### **India and Exercise**

• Indian Navy had participated in the exercise in 2006, 2010, and 2012 as an observer, since 2014, India has been participating as a member country.

### Other Bilateral Exercises between India and the U.S.

- ✓ Vajra Prahar It is a Special Forces joint military training exercise conducted alternately in India and the U.S. since 2010.
- ✓ Yudh Abhyas It is a joint military exercise between India and the U.S.
- ✓ Tiger Triumph- It is a tri-service military exercise between India and the U.S.

Topic- GS Paper 3-Defence Source- The Hindu Arktika-M Satellite

### Why in the news?

Recently, Russia has decided to launch Arktika-M satellite at the end of 2020.





### **About Arktika-M satellite**

- It is a satellite aimed at monitoring the Arctic climate.
- Soyuz -2,1b carrier rocket will launch it with a frigate booster.
- The remote sensing Arktika-M will monitor the meteorological conditions in the polar region.

**Topic- GS Paper 3-Defence Source- AIR** 

China's largest carrier rocket 'Long March-5B

### Why is it in the news?

• Recently, China has successfully launched its largest carrier rocket 'Long March-5B' from the Wenchang Space Launch Center in the southern island province of Hainan.





### **About Long March-5B**

- It was the **first mission** carried out by the **Long March-5B**, which was **carrying a new-generation spacecraft.** It inaugurates the **"third step" of China's manned space program**.
- The Long March-5B, with a length of about 53.7 meters and a takeoff mass of about 849 tonnes, was also carrying an inflatable cargo return module.
- The spaceship will take **one-day transport astronauts** to a **space station that China** plans to **complete by 2022** and eventually to the **Moon.**
- It will have the capacity for a crew of six.

### Topic- GS Paper 3-Defence, Source- The Hindu

### **Integrated Battle Groups to be operational soon**

### Why in the news?

• Recently the **Integrated Battle Groups (IBG)** as part of the overall **force transformation** will be operationalised very soon.

### **About Integrated Battle Groups**

- They are **brigade-sized agile self-sufficient** combat formations which can **swiftly launch strikes against the adversary.**
- Each Integrated Battle Group would be tailor-made based on Threat, Terrain, and Task, and resources will be allotted based on the three Ts.
- They will be able to mobilise within 12-48 hours based on the location.



## What are Integrated Battle Groups?

- IBGs are brigade sized, agile, self-sufficient combat formations
- Each of them is tailormade based on Threat, Terrain & Task. Resources will be allotted based on the three T's
- . They will be able to

mobilise within 12 – 48 hrs based on the location

- Concept of IBG pilottested by 9 Corps. They are reorganising based on the feedback and will be restructured by August end
- Army will approach Centre for sanction after that



**Topic- GS Paper 3-Defence** 

**Source- The Hindu** 

Tour of Duty' (ToD) or 'three-year short Service

Why in the news?

- Recently the Army has plans to take civilians on a three- year 'Tour of Duty' (ToD) or 'three-year short service' on a trial basis to serve in the force as both officers and other ranks initially for a limited number of vacancies and then expanded later.
- The proposal is under consideration, if approved, it will be voluntary, and there will be no dilution of criteria in selection.





### **Purpose of three-year short Service**

- The overall purpose of the **ToD concept** is **'internship/temporary experience'**.
- There will be no requirement of attractive severance packages, resettlement courses, professional encashment training leave, ex-Servicemen status, ex-Servicemen Contributory Health Scheme (ECHS) for the ToD officers and other ranks.

### **Advantages**

- This scheme was for those who did not want a **full career** in the **Army** but still wanted to put on **the uniform.**
- Individuals who opted for ToD would get a much higher salary than their peers on an average that started a career in the corporate sector and would also have an edge after leaving the Service and going to the corporate sector.
- The Army hoped that this would attract individuals from the best colleges, including the Indian Institute of Technology.

**Topic- GS Paper 3-Defence Source- The Hindu** 

### **Defence Testing Infrastructure Scheme**

Why is in the news?

• Recently, the Union Defence Minister has approved the launch of the Defence Testing Infrastructure Scheme.

### **About Defence Testing Infrastructure Scheme**

- It is launched with an outlay of Rs 400 crore for creating a state of the art testing infrastructure for the defence sector. The Scheme aimed to provide a boost to domestic defence and aerospace manufacturing.
- The Scheme would run for five years and envisages set up six to eight new test facilities in partnership with private industry.
- It will facilitate indigenous defence production, consequently, reduce imports of military equipment and help make the country self-reliant.

### **Funding Pattern**

- The projects under the Scheme will be **provided with up to 75 percent of government funding** in the form of **'Grant-in-Aid'**.
- The remaining 25 per cent of the project cost will have to be borne by the Special Purpose Vehicle (SPV) whose constituents will be Indian private entities and State Governments.

### **About the Special Purpose Vehicle**

• It will be registered under Companies Act 2013 and shall also operate and maintain all assets under the Scheme, in a self-sustainable manner by collecting user charges.

**Topic- GS Paper 3-Defence Source- The Hindu** 



# UPSC and PCS Monthly Current Affairs May 2020

