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*Success is born of action...*

## Topic 1: PSLV-C51

*Importance for Prelims: Science and Technology*



ISRO's workhorse Polar Synchronous Launch Vehicle delivered its 53rd prosperous mission on Sunday.

It launched Amazonia-1, a 637-kg business remote sensing satellite for the

- Brazilian house analysis agency INPE, and eighteen co-passenger satellites (five being Indian satellites and thirteen from the US) from Satish Dhawan house Centre at Srihari kota in province.
- It was inserted into sun synchronous orbit.
- Amazonia-1 is that the initial satellite designed, developed and launched by the Brazilian house analysis agency and is meant to observe

deforestation and agricultural activities within the Amazon region in Brazil. It will monitor the country, the Amazon and bio reserves within the country.

- It is initial full-fledged business satellite launch (Earlier 3 launches involving auxiliary tiny satellites) for brand spanking new house India restricted (NSIL).
- NSIL may be a business arm of ISRO created in 2019 to alter ISRO analysis and capabilities.
- 4 of the co-passenger satellites were signed for launch by IN-SPACE, ISRO's tiny satellites facilitation agency, et al. by NSIL.
- Among Indian satellites 3 are UNITY sats designed by students from the Jeppiaar Institute of Technology, Sriperumbudur, G.H. Rasoni faculty of Engineering, Nagpur, and Sri Shakti Institute of Engineering and Technology, Coimbatore, and a fourth one known as the Satish Dhawan Sat (SDSAT) was designed by the firm house Kidz India.
- **The UNITYsats** can give radio relay services whereas the **SDSAT**, a nano satellite, can study radiation, house weather and demonstrate long-range communication school The fifth Indian satellite on the launch was the Sindhu Netra, an advert payload to demonstrate technology.
- **Pixxel India** (Start up beaked as India's version of SpaceX) was suppose to send satellite during this launch (first of its satellite 'Anand' was to air this launch to image whole globe) however software system problems didn't create it prepared for the launch.

### About Sun Synchronous orbit

- Sun-synchronous orbit or a heliosynchronous orbit permits a satellite to jump over a vicinity of the world at constant time of day. It lies during a plane that maintains a set angle with reference to the Earth-sun direction Since there are three hundred and sixty five days during a year and 360

degrees during a circle, it means the satellite has got to shift its orbit by roughly one degree per day.

- These satellites orbit at Associate in Nursing altitude between 700 to 800 kilometer. These satellites use the actual fact since the world isn't dead spherical (the Earth bulges within the center, the bulge close to the equator can cause extra attractive force forces to act on the satellite. This causes the satellite's orbit to either proceed or recede.
- These orbits ar used for satellites that require a relentless quantity of daylight.
- Satellites that take photos of the world would work best with bright daylight, whereas satellites that live radio radiation radiation would work best in complete darkness.

## Topic 2: National Green Tribunal (NGT)

### *Importance for Prelims: Environment*



NGT cites delay in filing attractiveness to dismiss each second plea that has now and then accomplished implementation of laws as such appeals falls among outer point in time of sixty days except initial thirty days.

- Under the NGT Act, 2010, a clearance are often challenged by associate affected party among thirty days whereas the court has the authority to excuse another sixty days' delay given "sufficient cause".
- This point in time applies from the day of communication as each regulators and developers area unit lawfully needed to position each project clearance within the property right.
- Some of the comes consistent with a report that saw attractiveness by individuals against setting clearances being denied even once sufficient cause existed:
  - ✓ Kusmunda opencut coalpit – Chhattisgarh
  - ✓ Penganga opencut coalpit – Maharashtra
  - ✓ limestone mining – Gujarat's Gir-Somnath district
  - ✓ Ashti elevate Irrigation theme III – Maharashtra

### Topic 3: Maritime India Summit 2021

#### *Importance for Prelims: Economy*



The PM Modi can inaugurate virtual Maritime India Summit, 2021 today.

- The Maritime India Summit 2021 is being organized by the Ministry of Ports, Shipping and Waterways unitedly with FICCI on a virtual platform [WWW.maritimeindiasummit.in](http://WWW.maritimeindiasummit.in) from second March to fourth March 2021.
- The Summit can visualize a roadmap for India's Maritime sector for next decade and can work to propel India to the forefront of the worldwide Maritime Sector.
- Denmark is that the partner country for the three-day summit.
- Various stakeholders within the maritime sector as well as senior and eminent policy planners, domestic and international investors, CEOs of Indian and international maritime firms, trade specialists, thought leaders, technology suppliers, bankers and insurers, representatives of major ports and shipping lines from across the globe.

## Topic 4: Bhagwan Mahavir Wildlife Sanctuary and the Mollem National Park (GOA)

*Importance for Prelims: Environment*



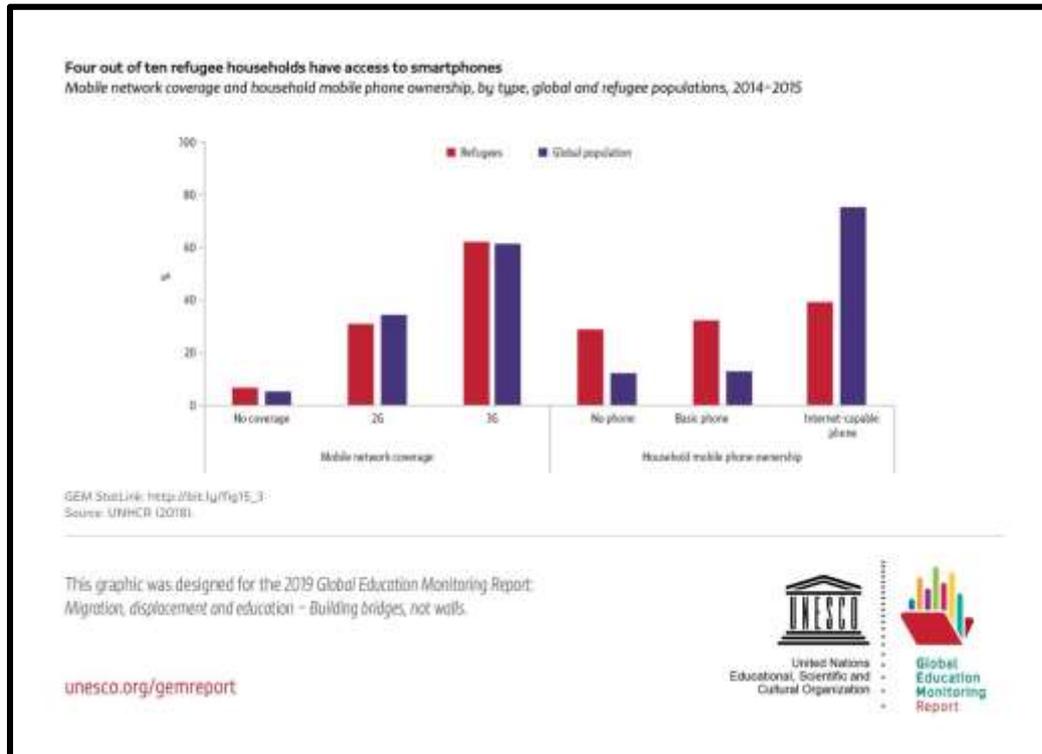
Ministry of surroundings, Forest and temperature change has granted clearances for the diversion of one hundred forty hectares of forest land for the South Western Railway's doubletracking project in Goa amidst protests.

- Environmentalists and locals are complaining against the commit to traverse the **Bhagwan Mahavir life Sanctuary and also the Mollem parkland** in south Goa as a results of the project.

- Approval for double-tracking between Castlerock railroad station in north state to Kulem railroad station in south Goa was given.
- Environmentalists have opposed 3 linear comes — the double-tracking project, the four-laning of a national route and also the Goa-Yanmar transmission power project.
- The protest is for the rationale that the comes might cause large-scale destruction to forests within the Western Ghats, offer no advantages to native residents and were aimed toward fast the transport of coal from the Mormugao Port Trust to state.
- **“Save Mollem” movement** diode by the Goa Foundation has been complaining against the diversion of forest land since last year.

## Topic 5: Global Education Monitoring Report (GEM report)

### *Importance for Prelims: International reports*



A International Bank for Reconstruction and Development report. Compiled unitedly with UNESCO's international Education observance Report, it aforesaid current levels of presidency disbursement in low and lower-middle financial gain nations let down of these required to attain property Development Goals.

- 65% of low- and middle-income countries and thirty third of others have cut their education budget because of Covid-19 stress on finances.

### **About GEM report:**

- It was free by the international organisation instructional, Scientific and Cultural Organization (UNESCO).
- GEM 2020 aforesaid that in the peak of college closures in Apr 2020, nearly ninety one of scholars round the world were out of college.
- Poorer countries opted for radio and tv (TV) lessons, fifty fifth of low-income, seventy three of lower-middle-income and ninety three of upper-

middle-income countries adopted for on-line learning platforms for primary and instruction.

- India has used a combination of all 3 systems (radio, TV and on-line platforms) for instructional continuity.
- GEM, 2021 can target role of non-state actor in education.

## **Topic 6: TEQIP (Technical Education Quality Improvement Programme)**

### ***Importance for Prelims: Welfare schemes***

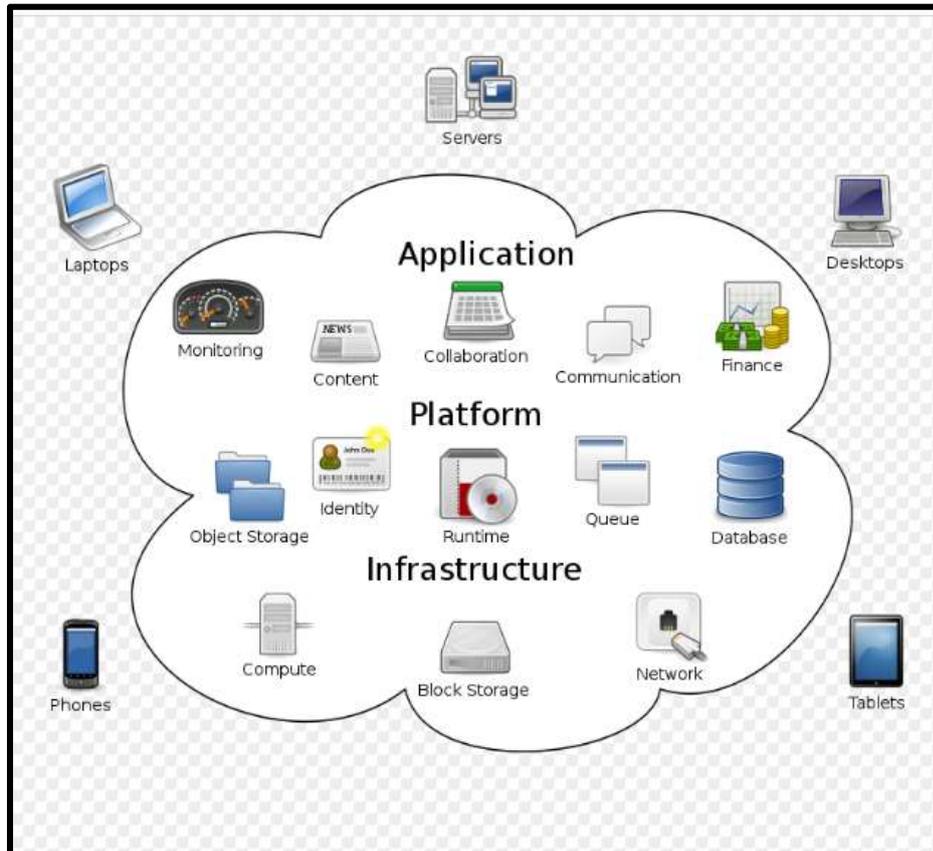
With the project close to its finish it should leave over one,200 assistant professors out of employment and a few rural faculties empty [\*fr1] their school.

- The government is speech it's designing its own MERITE project to push scientific, technical and industrial information post TEQUIP completion. However, whilst Tequip is returning to AN finish, there's not a lot of clarity concerning constant.
- Technical Education Quality Improvement Programme may be a project of state of Bharat motor-assisted by World Ban
- The objective of the Program is to reinforce quality and equity in collaborating Engineering Education Institutes and improve the potency of the Engineering Education System in Uttarakhand, Himachal Pradesh, Bihar, Uttar Pradesh, Madhya Pradesh, Chhattisgarh, Rajasthan, eight North japanese States and Andaman & Nicobar Islands.
- The Project has 2 main elements, (i) rising quality and equity in engineering institutes in those states; and (ii) System-level initiatives to strengthen sector governance and performance.
- It focuses on capability building of staffs, analysis fellowships and R&D infrastructure development.
- The project has been designed as a disbursement coupled loan, that is, the planet loan are going to be disbursed on accomplishment of specific outcomes.
- Three phases of the ₹3,600-crore TEQIP project are completed since it had been launched in Dec 2002 (third part can before long end).
- The third part centered on rising quality and equity (ex- recruit over one,500 school from prime establishments — four out of 5 area unit from

the NITs and also the IITs) in engineering establishments in seven low financial gain, eight northeastern and 3 unsmooth States.

## Topic 7: Cloud Computing

### *Importance for Prelims: Science and Technology*



According to the LinkedIn international Skillset Survey, cloud computing is that the most sought-after ability set these days.

- It is calculable that cloud computing trade is ready to grow from \$371.4 billion in 2020 to \$832.1 billion by 2025, at a 17.5 per cent CAG.
- The rise in demand is as a result of corporations square measure seeking to make digital presence and stay alive throughout Covid-19 and longterm edges of cloud service is attracting abilities still as corporations.
- It is that the delivery of computing services as well as servers, storage, databases, networking, software, analytics, and intelligence over the net (“the cloud”) to supply quicker innovation, versatile resources, and economies of scale.

### **Types of cloud**

- **Public clouds** square measure in hand and operated by a third-party cloud service supplier, that deliver their computing resources like servers and storage over the net. Ex- Microsoft Azure.
- **Private cloud** refers to cloud computing resources used completely by one business or organisation. a non-public cloud is physically placed on the company's on-the-scene datacenter.
- **Hybrid clouds** mix public and personal clouds, certain along by technology that permits knowledge and applications to be shared between them giving business larger flexibility, a lot of preparation choices and helps optimise your existing infrastructure, security and compliance

#### **Types of cloud services: IaaS, PaaS, serverless and SaaS**

- **Infrastructure as a service (IaaS):** dealing of IT infrastructure like servers and virtual machines (VMs), storage, networks, in operation systems from a cloud supplier on a pay-as-you-go basis
- **Platform as a service (PaaS):** Platform as a service refers to cloud computing services that provide associate on-demand atmosphere for developing, testing, delivering and managing code applications.
- **code as a service (SaaS):** Software as a service may be a methodology for delivering code applications over the net, on demand and usually on a subscription basis. Cloud suppliers host and manage the code application and underlying infrastructure and handle any maintenance
- **Serverless computing:** building app practicality while not disbursal time regularly managing the servers and infrastructure needed to try and do therefore. The cloud supplier handles the setup, capability designing and server management.

## **Topic 8: Saksham Anganwadis schemes**

### ***Importance for Prelims: Welfare schemes***

The budget two021-22 for Ministry of girls and kid development saw highest allocation to the Sakasham Anganwadi theme along side the Poshan Abhiyan 2.0.

- It could be a Ministry of girls and kid development theme.
- The aim of the theme is to upgrade a complete of two.5 lakhanganwadis within the next 5 years.

### **About Anganwadi**

- Anganwadis or a kind of rural kid care centre were started by the Indian government in 1975 as a part of the Integrated kid Development Services program to combat kid hunger and deficiency disease.
- These ar put attentiveness for implementation of all the health, nutrition and early learning initiatives underneath ICDS.
- Currently Anganwadis services theme give six services: Supplementary nutrition, protection, health check-up, pre-school non-formal education, nutrition and health education, and referral services. These ar performed by The Anganwadi employee (AWW).
- AWW could be a lady (18- forty four years) from the native village and acceptable within the area people. they're unearned employees WHO receive a monthly reward
- They ar supported by supported by a part-time assistant, referred to as AN Anganwadi Helper (AWH).
- Generally, there's one Anganwadi employee for a population of concerning a thousand individuals.

## Topic 9: Poshan Abhiyan 2.0

### *Importance for Prelims: Welfare scheme*

Poshan Abhiyan two.0 was declared in budget 2021-22 as a next step to in progress Poshan abhiyan to eliminate deficiency disease.

- The Poshan two.0 theme is to be associate degree umbrella theme covering the Integrated kid Development Services (ICDS), Anganwadi Services, Poshan Abhiyaan, theme for Adolescent ladies and National Creche theme.
- It is associate degree intense strategy to boost biological process outcomes can place 112 aspirational districts with focus on: Heath, well-being & immunity of youngsters and pregnant ladies to eradicate deficiency disease.
- It can merge Supplementary Nutrition Programme and therefore the Poshan Abhiyan.
- **Saksham Anganwadi and POSHAN 2.0** can cowl the Integrated kid Development Services (ICDS) theme, national nutrition mission or POSHAN Abhiyaan, theme for adolescent ladies, national crèche theme.
- The budget has allotted Rs. 20,105 crores for ‘Saksham Anganwadi and POSHAN two.0’ covering the Integrated kid Development Services (ICDS) theme.

### **About Poshan Abhiyan**

- It may be a flagship programme to boost biological process outcomes for youngsters, pregnant ladies and wet mothers.
- Launched in 2018 it aims at creating it a people’s movement (Jan Andolan) around deficiency disease and meant to considerably scale back deficiency disease within the next 3 years.

## Topic 10: National Critical Information Infrastructure Protection Centre (NCIIPC)

*Importance for Prelims: Security*



A United States of America cyber security firm aforesaid there was steep rise within the use of malware by a Chinese cluster known as Red Echo to focus on India's power sector organisations in 2020 once tension between India-China was high. The Centre confirmed it once NCIIPC hip it and aforesaid there was no information loss.

- Earlier the Indian laptop Emergency Response Team (CERT-In) on Nov nineteen, 2020, hip the govt. on the threat of a malware known as Shadow Pad at some management centres of POSOCO (Power System Operation Corporation Ltd). T was later confirmed by NCIIPC.
- It is nodal agency to safeguard crucial laptop resources.
- Under Section 70A(1) of the knowledge Technology (Amendment) Act 2008 it's been selected for taking all measures together with associated

analysis and Development for the protection of CIIs (Critical info Infrastructure) in Bharat.

- NCIIPC is driven by its mission to require all necessary measures to facilitate protection of crucial info Infrastructure.
- It may be a unit of the National Technical analysis Organisation (NTRO) and relies in New Delhi.
- NCIIPC shield and deliver recommendation that aims to scale back the vulnerabilities of crucial info infrastructure, against cyber terrorist act, cyber warfare and different threats.
- Identification of all crucial info infrastructure parts for approval by the suitable Government for notifying identical.
- Provide strategic leadership and coherence across Government to reply to cyber security threats against the known crucial info infrastructure

### **Critical info Infrastructure**

- Information Infrastructure is that the term sometimes accustomed describe the totality of interconnected computers and networks, {and info|and knowledge|and data} flowing through them sure a part of information infrastructure is devoted for management / management etc. of infrastructure providers' e.g. Power generation, Gas/oil pipelines, or support our economy or national material e.g. Banking / medium etc., and its failure or outage on our National well-being or National Security marks them as being crucial.
- info infrastructure supporting the operations of crucial Infrastructure (CI) designate such infrastructure as crucial Information infrastructure (CII).
- **IT Act, 2000:** "Critical info Infrastructure means that the pc resource, the incapacitation or destruction of that, shall have enfeebling impact on national security, economy, public health or safety".

**NCIIPC has loosely known the subsequent as 'Critical Sectors':-**

- ✓ Power & Energy
- ✓ Banking, money Services & Insurance
- ✓ Telecom
- ✓ Transport
- ✓ Government
- ✓ Strategic & Public Enterprises

## Topic 11: Bureau of Indian Standards (BIS)

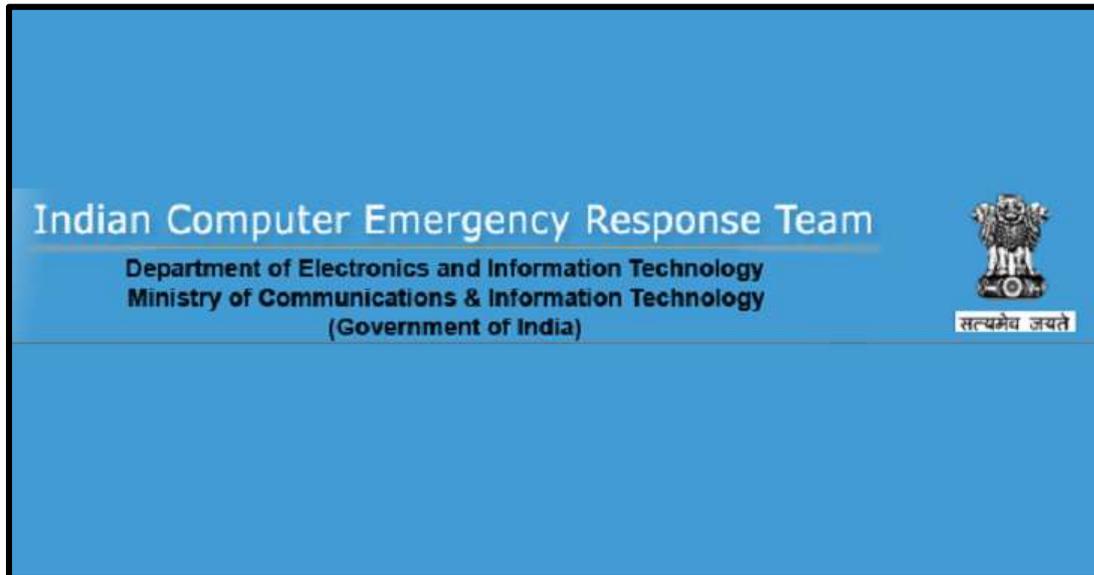
### *Importance for Prelims: Polity*

The Union minister addressed governing council of the BIS yesterday. He urged government departments and public sector undertakings (PSUs) to abide solely by Indian standards in procural processes

- It is that the National commonplace Body of Asian country established beneath the BIS Act 2016 for the harmonious development of the **activities of standardization, marking and quality certification of products** and for matters connected thereupon or incidental to that.
- It works beneath the aegis of Ministry of client Affairs, Food & Public Distribution.
- The Minister to blame of the Ministry or Department having body management of the BIS is that the ex-officio President of the BIS.
- It is one amongst the founder member of global organization for Standardization (ISO).
- It seeks to supply safe reliable quality merchandise, minimizing health hazards to customers, promoting exports and imports substitute, management over proliferation of types etc. through standardization, certification and testing.
- BIS has its Headquarters at New Delhi and its 05 Regional Offices (ROs) ar at metropolis (Eastern), urban center (Southern), city (Western), Chandigarh (Northern) and Old Delhi (Central).

## Topic 12: CERT-In (Indian Computer Emergency Response Team)

*Importance for Prelims: Security*



Cyfirma, a cyber intelligence companies same that the Chinese hacking cluster has been targeting Indian immunizing agent.

- CERT-In (the Indian pc Emergency Response Team) could be a government mandated data technology (IT) security organization created in 2004.
- The purpose of CERT-In is to reply to pc security incidents, report on vulnerabilities and promote effective IT security practices throughout the country.
- According to the provisions of the knowledge Technology change Act 2008, CERT-In is chargeable for overseeing administration of the Act.
- CERT-In has been selected to function the national agency to perform the subsequent functions within the space of cyber security:
  - ❖ Collection, analysis and dissemination of knowledge on cyber incidents.
  - ❖ Forecast and alerts of cyber security incidents
  - ❖ Emergency measures for handling cyber security incidents
  - ❖ Coordination of cyber incident response activities.
  - ❖ Issue tips, advisories, vulnerability notes and whitepapers concerning

- ❖ information security practices, procedures, prevention, response and news of cyber incidents.
- ❖ Such alternative functions concerning cyber security as is also prescribed.

### **Topic 13: Contraindication**

#### ***Importance for Prelims: Science and technology***

Second part of vaccination with the target cluster of over sixty years and over forty five years with comorbidities started from March one.

The Health Ministry reality sheet says the immunogen can't be given to a few categories:

- ❖ persons with a history of associate hypersensitivity to a previous dose of Covid-19 vaccine;
- ❖ those with associate hypersensitivity to vaccines or injectable therapies, pharmaceutical products, and food items;
- ❖ pregnant and fresh ladies, and girls World Health Organization aren't positive of their maternity.

#### **About reason**

- It may be a condition that is a reason to not take an exact medical treatment thanks to the hurt that it might cause the patient.

#### **For Covid-19 vaccination 3 class of temporary reason has been issued:**

- ❖ persons having active symptoms of SARS-CoV-2 infection
- ❖ Covid-19 patients World Health Organization are given anti-SARS-Cov-2 being antibodies or convalescent plasma
- ❖ acutely unwell and hospitalized — with or while not medical care — patients thanks to “any malady

## Topic 14: WTO gets new Director General

### *Importance for Prelims: International Organizations*



New decigram Ngozi Okonjo-Iwewala, a Nigerian-American economic expert, took over the charge of global organization.

- She is that the initial girl chief of the global organization. She is additionally the primary African to carry the workplace of global organization as its director-general.

### **About WTO**

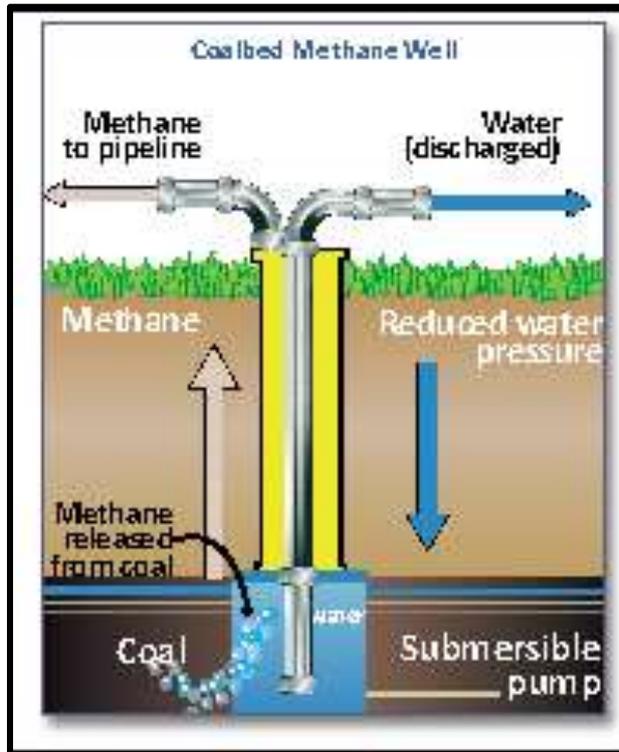
- The World Trade Organization (WTO) is that the solely international world organisation coping with the principles of trade between nations.
- The global organization started working on one Jan 1995 because the successor body of General Agreement on Tariffs and Trade (GATT) that was in situ since 1948.
- WTO agreements, negotiated and signed by the world's commerce nations and legal in their parliaments ar the driving force of WTO-based framework.
- All major selections ar created by the WTO's member governments: either by ministers (who sometimes meet a minimum of each 2 years) or by their ambassadors or delegates (who meet frequently in Geneva).
- The WTO's high decision-making body is that the Ministerial Conference

(usually takes place each 2 years).

- Below this is often the final Council (day to day higher cognitive process body) and numerous different councils and committees.
- The global organization has over 164 members representing ninety eight per cent of world trade.
- Ordinarily, selections are created by accord within the global organization. most up-to-date member is Asian country (2016).
- Last ministerial conference was in capital of Argentina, Argentina in 2017 and is meant to be command in Kazakhstan in 2021.
- WTO conjointly incorporates a Dispute Settlement Framework in situ to resolve disputes between nations.

## Topic 15: Coal Bed Methane (CBM)

### *Importance for Prelims: Environment*



Need for move far from fossil driven energy economy to the cleaner renewable supply beside India's continued dependence on coal for energy wants necessitate specialize in "Clean Coal Technology". Coal Bed methane series, or CBM is seen joined of the alternatives.

- CBM is associate unconventional gas that happens in coal beds in adsorbable type throughout coalification method (transformation of stuff into coal) and is made in methane series content.
- It are often used for power generation, running combustion engines and as domestic fuel on business lines. specialize in exploration also will push extra scope for raised employment and state revenues.
- With fifth-largest coal reserves within the world India|Bharat|Asian country|Asian nation} has large potential (Gondwana sediments of jap India holding the majority potential; Damodar Koel depression and Son depression area unit major regions). Its CBM resources area unit

calculable at ninety two trillion cubical feet (TCF).

### Challenges

- Methane is twenty five times less attackable gas than carbonic acid gas.
- It has large challenges for soil and scheme of the region.
- Water discharges from CBM development may foul downstream water sources
- It additionally poses safety challenge in underground coal mines (proper ventilations is required for geographic point and closing mining operations).

### India's Policy up to now

- In order to harness CBM potential within the country, the govt of India developed CBM policy in 1997 whereby CBM being gas is explored and exploited beneath the provisions of OIL Fields (Regulation & Development) Act 1948 (ORD Act 1948) and oil & gas Rules 1959 (P&NG Rules 1959) administered by Ministry of oil & gas (MOP&NG) and also the board General of Hydrocarbons (DGH) was created the nodal agency for development of CBM within the country each oil and Coal Ministries were collectively created to blame for developing the resource.
- Delineation of CBM blocks was to be done solely in consultation with the Coal Ministry.
- The Central Mine designing and style Institute Ltd (CMPDIL), a subsidiary of Coal India Ltd (CIL), was created the nodal agency for delineating CBM blocks.
- By 2019 there have been solely four operational blocks with exploration abundant below potential as only one.87 mmscmd (million metric customary metric capacity unit per day) of CBM production (Australia started at same time with 109 mmscmd production)

### Two major reforms:

- ❖ Public sector coal corporations were allowable to explore and extract CBM from the landed estate areas control by them while not seeking separate lease for gas extraction.
- ❖ Freedom to repair the worth and sale of gas was extended by the govt to all or any operators of CBM

## **Topic 16: PM KUSUM**

### ***Importance for Prelims: Welfare schemes***

The Centre changed the theme and can currently offer thirty per cent of price|the value|the price} of building atiny low star plant (70% cost borne by state DISCOMS) to produce electricity to the agricultural feeder, that primarily provides electricity to all or any the pumps in an exceedingly village.

### **Three parts of PM-KUSUM:**

- 1) 10,000 megawatts (MW) of localized ground mounted grid-connected renewable power plants (Component-A);
- 2) Installation of seventeen.50 large integer standalone star high-powered agriculture pumps (Component- B); and
- 3) starisation of ten large integer grid-connected solar high-powered agriculture pumps
- 4) (Component-C).

### **About modification in scheme:**

- The modification aims at concentrate on solarizing agricultural feeders rather than pumps, that was focus to date and changes part three.
- Currently, underneath the theme farmers were being provided thirty per cent grant from the Centre and another thirty per cent from their regime (40% by farmers) to switch their existing grid connected agricultural pumps with grid connected star pumps.
- Farmers weren't incentivized under that as agriculture equipped to agriculture gets grant already.
- In current amendment it's expected that the DISCOMS can see fall in procurance value from current Rs half-dozen per unit to Rs a pair of per unit for solar energy and thence retrieve the investment in 4-5 years.
- Or for remaining seventieth value the state will avail loans from NABARD or they will even launch tenders for these planned star plants

and sign PPAs with winning developers.

## Topic 17: Western Container terminal project (WCT) – Sri Lanka

*Importance for Prelims: International relations*

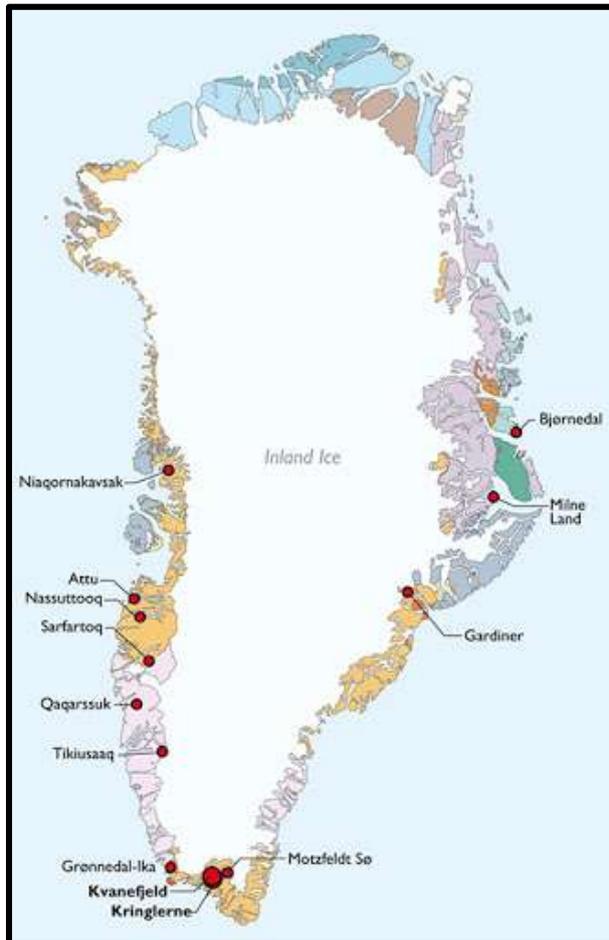


After walking out of the Japanese Instrumentation Terminal, the country has offered West Instrumentation Terminal (WCT) to Indian and Japanese firms with eighty-fifth stakes.

- The WCT is strategically set next to a \$500-million Chinese-run instrumentation groin inside Colombo's sprawling port.
- The project is going to be on Build, Operate and Transfer basis for a amount of thirty five years as a public-private partnership with Adani Ports and Special Economic Zone restricted and its native representative John Keels Holding PLC, and also the country Ports Authority.

## Topic 18: Kringlerne Rare earth Deposit

*Importance for Prelims: World Geography*



The Greenland, a sovereign territory of the dominion o Scandinavian country is witnessing unhealthy facet of inexperienced power derived from lanthanon

- The world’s biggest island has large resources of metals called ‘rare earths,’ wont to facilitate power instrumentality like wind turbines and electrical vehicles.
- Warming temperatures area unit melting away ice sheets, creating Greenland’s wealth a lot of accessible.
- The most significant best-known REE deposits of Greenland area unit within the best Kvanefjeld and Kringlerne deposits.

## **Topic 19: Spectrum**

### ***Importance for Prelims: Science and technology***

the Centre garnered ₹77,814.80 large integer in revenues in spectrum auction. It exceeded the expectation as Telcos targeted on revitalising expiring spectrum and consolidating holdings in choose bands.

- It is that the invisible radio frequencies (used for communication) that wireless signals travel over.
- The frequencies we have a tendency to use for wireless square measure solely some of what's known as the spectrum (encompasses different frequencies we have a tendency to act with daily).
- VIGBYOR represents colours that structure the visible a part of spectrum. different components of spectrum carry broadcast radio and tv or serve different everyday functions.

### **Spectrum wavelengths square measure classified into totally different bands at intervals the spectrum range:**

- a. The entire electronic spectrum ranges from 3 Hz (extremely low frequency) to three hundred EHz (gamma rays). The portion used for wireless communication sits at intervals that house and ranges from concerning twenty kHz to three hundred gigacycle.

### **How will spectrum work?**

- b. Different bands have slightly totally different characteristics. typically just in case of communication the spectrum is split in 3 categories: low, mid, and high-band spectrum.
  - a. **Low-band spectrum (under three GHz):** Travels longer distances with nominal
- 2) signal interruption. Most wireless networks square measure engineered totally on low-band
- 3) spectrum, and therefore the wireless trade has used this **spectrum to**

make high-speed

4) **wireless networks**

- a. **High-band spectrum (above twenty four GHz)** travels abundant **shorter distances** (e., in meters), however offers **high capability and ultra-fast speeds**.
- b. **Mid-band spectrum (between three and twenty four GHz)** blends the characteristics of

5) both low- and high-band spectrum—providing a combination of coverage and capability.

6) These frequencies square measure transmitted between cell sites (cell towers) and our mobile devices.

- Spectrum could be a finite resource and therefore its economical management through auction is required. The Union government through DoT owns all the in public accessible assets at intervals the geographical boundaries of the country, that additionally embody airwaves.

## Topic 20: Sagar-Manthan: Mercantile Marine Domain Awareness Centre (MMDAC)

### *Importance for Prelims: Economy*

On the eve of Maritime India|Bharat|Asian country|Asian nation } summit 2021 India launched a vessel chase system.

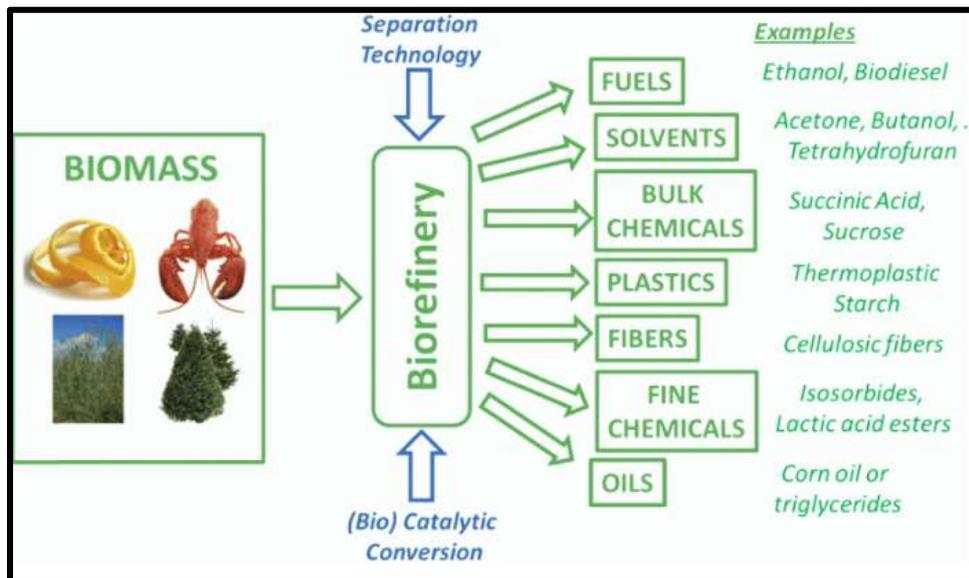
- Announcement was additionally created on **The Japanese Waterways property Transport Grid for regional property with Asian nation**, Nepal, Asian nation and Asian nation are going to be reinforced for effective regional trade and cooperation

### **About MMDAC**

- It may be a period vehicle chase system which may facilitate seafarers and fishermen and organize facilitate just in case of emergency.
- It can track Indian vessels globally; it may also track foreign vessels among one,000-km of India's outline.
- It are going to be operated by decigram Shipping. Bharat can share it with state and therefore the Maldives.
- The MMDAC facility additionally has components of security, that decigram Shipping collaborates with the Indian Navy.

## Topic 21: Bio-refinery

### *Importance for Prelims: Environment*



The Minister of crude and natural gases at an incident world Bio Asian nation 2021, organized by Department of Biotechnology same push for putting in place twelve bio refineries or 2G-ethanol industrial plants from agriculture waste across eleven states goes on.

- It can facilitate Asian nation in ethyl alcohol mixing programme for achieving twenty per cent ethanolblending in hydrocarbon by 2025.

### **About Bio-refinery**

- Bio-refinery integrates biomass conversion processes and instrumentality to supply fuels, power, and added chemicals from biomass.
- Thus, it seeks to maximise the worth derived from the biomass feedstock.
- It mimics existing crude refineries whereas meeting energy desires and reducing the huge gas emissions from boring.
- **National Policy** on Biofuels emphasizes on increasing production victimization second generation bio-refineries and developing new feedstock for biofuels. It allowed the assembly of ethyl alcohol from broken food grains like wheat and broken rice, that area unit unfit for

human consumption.

## Topic 22: Blood Thinner

*Importance for Prelims: Science and Technology*



The ICMR director said that each of the vaccines offered in Asian nation area unit safe to be used for beneficiaries on blood thinners.

- These area unit medications taken orally or intravenously (through a vein) to forestall a blood (blood clot stop the flow of blood to the guts, lungs, or brain resulting in coronary failure or stroke).
- Medication is typically done once international normalized magnitude relation (INR) check i.e., rate at that blood clots.

### **Types of Blood thinners:**

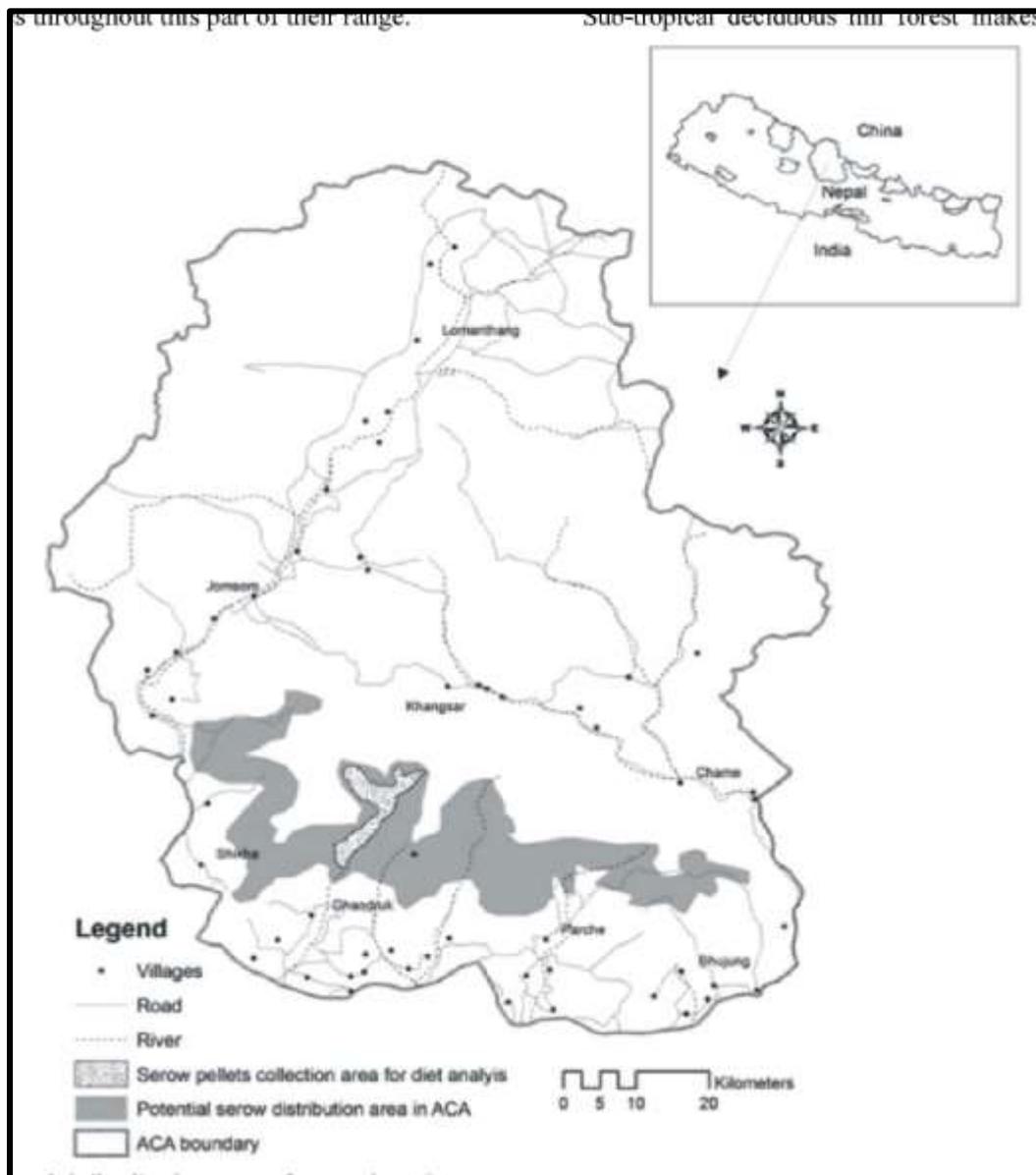
- 1) Antiplatelet drug: It thin the blood to stay blood cells (platelets) from jutting along within the veins and arteries. Ex- analgesic
- 2) Anticoagulant drugs: It stop blood clots by increasing the quantity of your time it takes for blood clots to create. These area unit typically counseled

to at least one with cardiovascular disease. Ex- anticoagulant fat-soluble vitamin will reduce the effectiveness of some anticoagulants, like anticoagulant.

- People World Health Organization take medicament medications area unit prompt to use seasoning supplements and teas with caution.
- Natural blood thinners: garlic, ginger, seasoner, aniseed.
- Foods wealthy in E also are natural blood thinners. variety of oils contain E, like olive, corn, soybean, and sustenance area unit a number of these.
- Other sources of E are: spinach, tomatoes, mangoes, kiwis, paste, almonds, helianthus seeds, broccoli

## Topic 23: Himalayan Serow

### *Importance for Prelims: Environment*



It was noticed recently in Manas tiger reserve, Assam.

- It was noticed near to the border with Bhutan in Manas's Bansbari Mathanguri forest.
- The sightings of rare associate degreemals and birds in Manas is an outcome of higher access to remote elements of the protected space wherever extremists and hunters once dominated it's been hawk-eyed for

the primary time in province.

- It may be a mountain chain craniate, somewhere between a goat associate degreed an bovid.
- It may be a race of the ground goat antelope native to the chain of mountains.
- It may be a high-altitude mortal typically found two,000-4,000 metres on top of water level.
- It is 'vulnerable' within the IUCN Red List of vulnerable Species
- Other animals/Birds hawk-eyed in region recently: black-necked crane; duck within the Maguri-Motapung land close to DibruSaikhowa parkland.

## Topic 24: Dhrupad

### *Importance for Prelims: Art and Culture*



One of the notable names in Dhrupad presently Akhilesh Gundecha additionally be|is also } suspended from Dhrupad sansthan which can also shut for time-being thanks to a harassment charge.

- Dhrupad is ancient and powerful kind of Hindustani genre.
- It emphasizes on stress on maintaining purity of the Raga.
- Its temperament is spiritual and traces its origin to the traditional text of Samveda.
- The word “Dhrupad” is resultant from the word Dhruva i.e., the persistent Hesperus moving through the galaxy and pada suggests that poetry
- The ancient performance is attended with a tanpura and pakhawaj. Dhrupad has usually had 2 components, Alap and Bandhish.
- It is basically poetic and it's given during a vogue marked with precise and orderly elaboration of Raga. exposition proceedings composed verses is named Alap.
- In medieval times it thrived beneath the patronage of Mughal and Hindu

kings.

## **Topic 25: Complete blood count (CBC), C-reactive protein (CRP), or Immunoglobulin-E (IgE) levels**

### ***Importance for Prelims: Science and Technology***

Amidst vaccination the precautions square measure being taken before it's given by adhering to those tests.

### **Complete blood count (CBC)**

- It may be a cluster of tests that appraise the cells (produced and mature primarily within the bone marrow and, underneath traditional circumstances, square measure free into the blood stream as needed) that flow into in blood, together with red blood cells (RBCs), white blood cells (WBCs), and platelets (PLTs). overall health and discover a range of diseases and conditions, like infections, anemia and cancer of the blood.

### **C-reactive protein (CRP)**

- It measures he level of serum globulin (CRP) in your blood. macromolecule|CRP|serum globulin} may be a protein created by liver. It's sent into blood in response to inflammation (body's manner of protective tissues if one is burned or have AN infection)

### **Immunoglobulin-E (IgE) levels**

- This check may be a biopsy that detects current immune serum globulin in our blood.
- Immunoglobulin E (IgE) is AN protein made throughout a sort I hypersensitivity to AN substance.
- Allergen is any substance (antigen), most frequently ingested or indrawn, that's recognized by the system ANd causes an sensitivity.

## **Topic 26: Adjusted Gross Revenue (AGR)**

### ***Importance for Prelims: Economy***

With 2 of the 3 operators having immense AGR liabilities as a result of the SC judgement the govt. saw the raising of Rs seventy seven, 814 crore through spectrum allocation as a positive development.

- It is that the usage and license fee (spectrum usage charges and licensing fees, pegged between 3-5 % and eight % respectively) that telecommunication operators are unit charged by the Department of Telecommunications (DoT).
- It is calculated supported all revenues earned by a public-service corporation – together with non-telecom connected sources like deposit interests and quality sales.
- Earlier the SC upheld the DoT definition of the AGR including dividend, interest financial gain or profit on sale of any investment or mounted assets.

## **Topic 27: Epigrap**

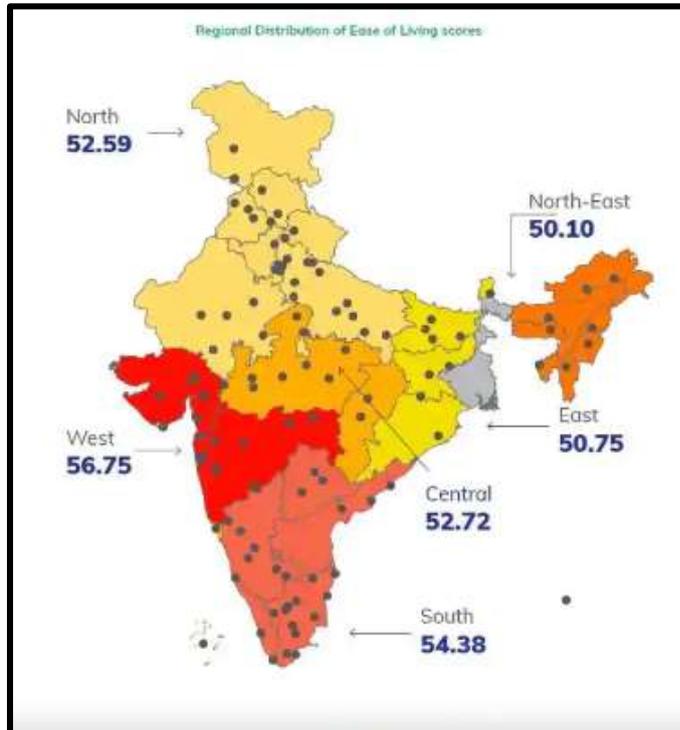
### ***Importance for Prelims: Science and technology***

A new algorithmic rule will probably produce a reactive respiratory disease immunogen for swine influenza, and offers a path toward a pan-influenza immunogen and probably a pan-coronavirus immunogen further.

- Epigrap is Associate in Nursing algorithmic rule and has already been wont to predict therapeutic HIV immunogen candidates, and it's additionally shown promising potential as a immunogen against extremely numerous hemorrhagic fever and Marburg viruses, protective against illness once tested in Associate in Nursing animal model.
- The epigrap designed product LED to vaccination impact with a robust cross-reactive protein response in mice.
- The tool creates a cocktail of immunogen antigens designed to maximise effectuality across a extremely numerous population.
- It was developed by scientists at the Los Alamos National research laboratory within the USA.

## Topic 28: Ease of Living Index 2020 (EoLI)

### *Importance for Prelims: Reports and indices*



The rankings below simple Living Index 2020 by MoHUA were proclaimed for cities (along with the MPI, 2020) with a population of quite 1,000,000.

- The simple Living Index encapsulates the end result indicators by a national Perception Survey (Bhubaneshwar had the best Hertz score) within the index, holding a weightage of half-hour. It additionally includes SDGs in its framework.
- The methodology and approach for the revised edition of EoLI and MPI were free by MoHUA in February 2019. primarily, the EoLI report aims to live the well-being of Indian voters in 111 cities, across the pillars of Quality of Life, Economic-ability, and property, with forty nine indicators below thirteen classes.
- Bengaluru (1st) was declared most liveable followed by Pune, Ahmedabad best cities in EoLI (Ease of Living Index) 2020 Shimla

hierarchical initial in EoLI 2020.

## **Topic 29: Loan to Value (LTV) ratio**

### ***Importance for Prelims: Economy***

Home loan rates square measure at 15-year low.

- The consumer credit rates square measure joined to the borrower' credit score and Loan to price magnitude relation.

### **About LTV ratio**

- An LTV magnitude relation is calculated by dividing the quantity borrowed by the appraised price of the property, expressed as a share.
- $LTV \text{ ratio} = \frac{\text{Mortgage Amount}}{\text{Appraised Property price}}$ .
- For ex- For a Rs one hundred,000 appraised price, and creating a ten,000 deposit, if we have a tendency to borrow ninety,000. This leads to Associate in Nursing LTV magnitude relation of ninetieth.
- It facilitate loaner verify the amount of exposure to risk they defy once Underwriting a mortgage.

### **Topic 30: OPEC+**

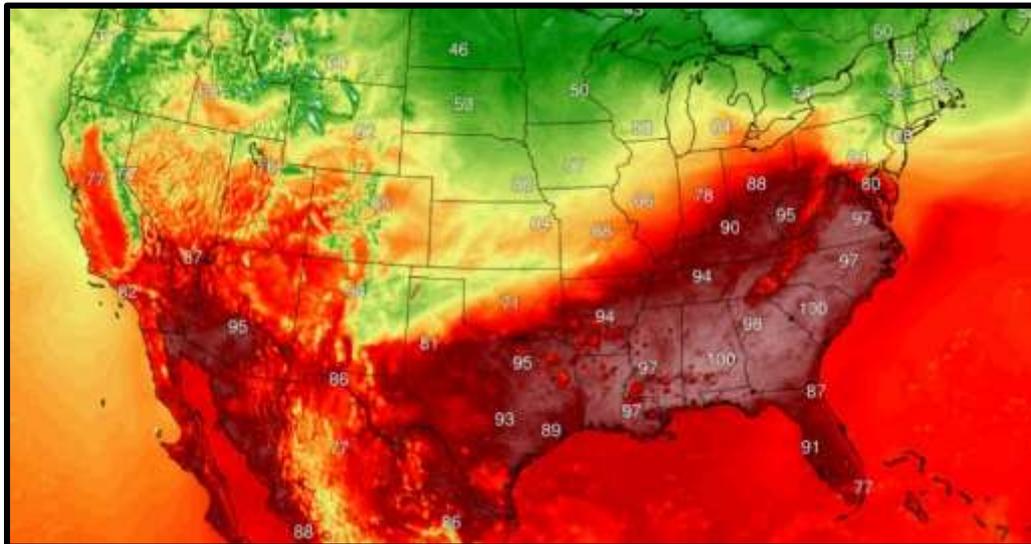
#### ***Importance for Prelims: International organizations***

Crude oil saw an increase of regarding five-hitter on Thursday as sources aforementioned OPEC and its allies have in agreement to stay production unchanged into Gregorian calendar month.

- OPEC+ is that the alliance of crude producers endeavor corrections in offer within the oil markets since 2017.
- OPEC and countries embody Asian country, Bahrain, Brunei, Kazakhstan, Malaysia, Mexico, Oman, Russia, South Sudan and Sudan. (OPEC, As of 2020, OPEC contains a total of thirteen Member Countries viz. Iran, Iraq, Kuwait, United Arab Emirates (UAE), Kingdom of Saudi Arabia, Algeria, Libya, Nigeria, Gabon, Equatorial Guinea, Republic of Congo, Republic of Angola and South American nation area unit members of OPEC.)

## Topic 31: Heat Wave

### *Importance for Prelims: Geography*



In spite of rise of on top of 3-5 degree Celsius the IMD dominated out wave conditions over North-West Bharat because of calming influence of a cooler western disturbance.

- A fresh western disturbance as a trough lay over South Asian country Associate in Nursing neighboring South-west Pakistan|West Pakistan|Asian country|Asian nation} on weekday evening in the course of an offspring cyclonic circulation over Central Pakistan and neighboring West Rajasthan that makes it a vigorous weather system.

### **About wave**

- A wave may be a amount of abnormally high temperatures, over the traditional most temperature that happens throughout the summer season within the North-Western components of Bharat.
- Heat Waves generally occur between March and Gregorian calendar month, and in some rare cases even extend until July.
- Urban heat island effects, deforestation, heating resulting in higher daily

peak temperature etc. are major causes of warmth waves.

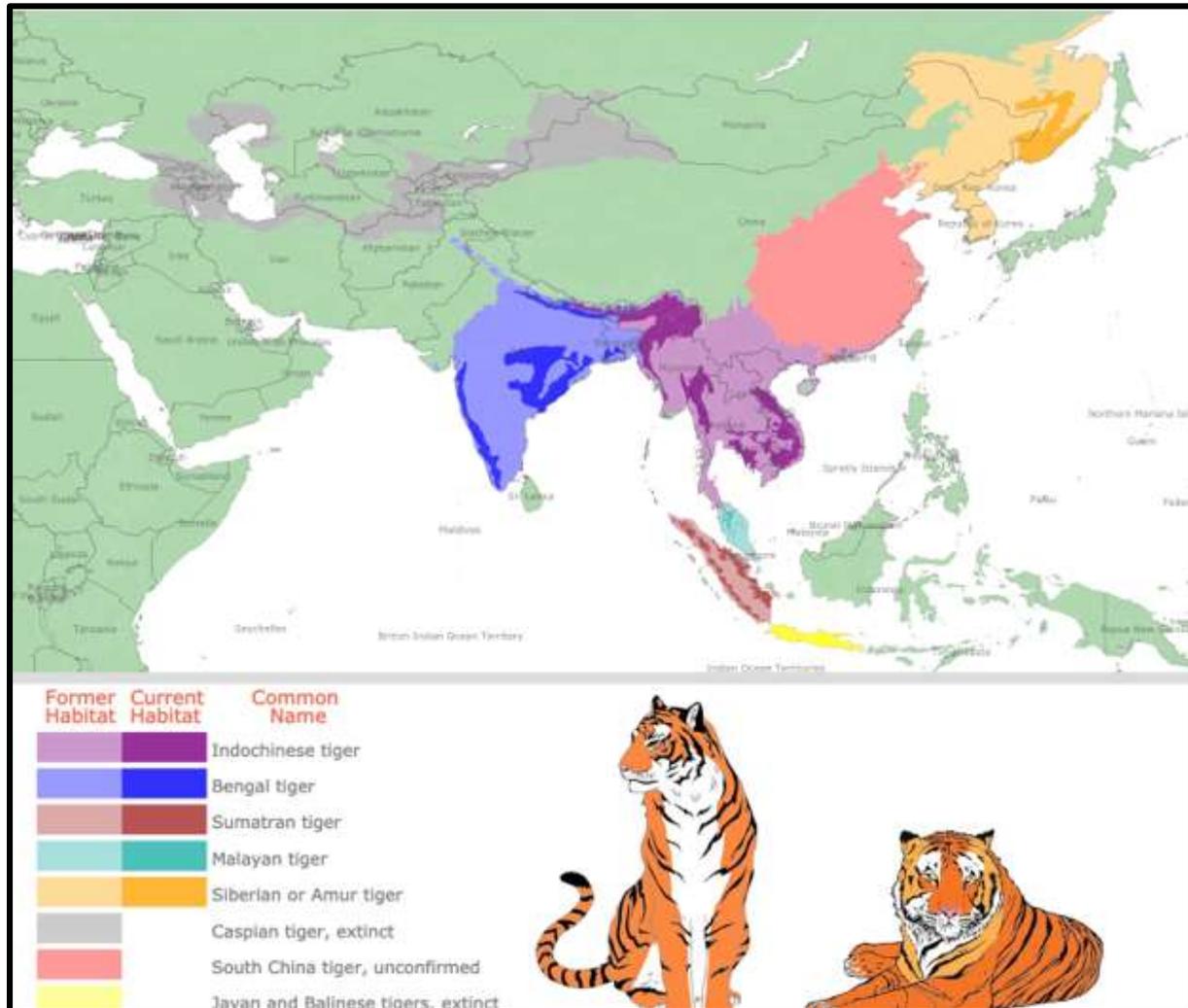
- The extreme temperatures and resultant region conditions adversely have an effect on folks living in these regions as they cause physiological stress, dehydration, heat cramps, heatstroke and/or heat stroke and typically leading to death.
- Children, the senior and people with pre-existing morbidities are significantly vulnerable.

**IMD defines Heat Waves as:**

- 1) Heat Wave needn't be thought-about until most temperature of a station reaches a minimum of 40°C for Plains and a minimum of 30°C for mountainous regions
- 2) When traditional most temperature of a station is a smaller amount than or adequate to 40°C wave Departure from traditional is 5°C to 6°C  
Severe wave Departure from traditional is 7°C or additional
- 3) When traditional most temperature of a station is over 40°C wave Departure from traditional is 4°C to 5°C Severe wave Departure from traditional is 6°C or additional
- 4) When actual most temperature remains 45°C or additional no matter traditional most temperature, heat waves ought to be declared.

## Topic 32: T1C2 tiger

### *Importance for Prelims: Environment*



T1C2 was discharged into wild in Pench Tiger Reserve

- T1C2 could be a 3-year-old *Panthera tigris* whose mother “Avni”, a maneatertigeress was killed a pair of years ago.
- It was discharged into wild once National Tiger Conservation Authority (NTCA) cleared its unleash into wild.
- It was once radio collaring of the *Panthera tigris*. Radio collaring is primarily used for pursuit the movement and activity patterns of the labelled animal, with the signals being sent to a hand-held device or to a

laptop via a satellite.

### **About Pench tiger reserve**

- It is one in all the premier tiger reserves of Bharat and also the 1st one to straddle across 2 states – Madhya Pradesh and geographical area.
- The a part of the reserve in Madhya Pradesh is snuggled within the southern slopes of the Satpura vary of Central Bharat.
- It includes of the Indira Priyadarshini Pench park, the Pench Mowgli Sanctuary and a buffer.
- It was depicted within the far-famed “The Jungle Book” by writer.
- watercourse pench flows into reserve cutting it into 2 from North to South before occurring to hitch the Kanhan River, The Pench watercourse that emerges from Mahadeo Hills of Satpura Ranges.
- The Indian Wolf, Sloth Bear, geographic area royal tiger is major attraction of the reserve.

### Topic 33: Inert waste

*Importance for Prelims: Environment*



Members of the Ridge Management Board (RMB) Friday set to create AN professional panel to check a proposal created by the South MCD for merchandising “inert material” in Bhatti mines at **Asola Bhatti life Sanctuary**.

**Generally, there are 3 classes of landfills (place wherever waste):**

- landfills for unsafe waste
- landfills for non-hazardous waste
- landfills for inert waste.

#### **About inert waste**

- Those waste that is neither biologically nor with chemicals and is waste which can not decompose Ex- sand, concrete, Clay, Sub soil, Chalk and rubbish sometimes, it doesn't create a threat to the surroundings, or the health of animals or people and can not endanger the standard of watercourses.
- However, great amount of this kind of waste will create it a difficulty.

### **Topic 34: Private Members Bill**

#### ***Importance for Prelims: Polity***

The MP state assembly passed a non-public bill to alter the name of Hoshangabad to Narmadapuram through voice vote.

- Every member of Parliament/legislature, UN agency isn't a Minister, is named a non-public Member.
- A non-public member's Bill is totally different from a public Bill associated is piloted by an MP/MLA UN agency could be a non-public member.
- Government Bills area unit backed by the govt. and conjointly replicate its legislative agenda. The acceptability of a non-public Bill is set by the Chairman within the case of the Rajya Sabha and also the Speaker within the case of the Lok Sabha the Member should provide a minimum of a month's notice, for the House Secretariat to look at it for compliance with constitutional provisions and rules on legislation (Public bill may be introduced on any day).
- Unlike public bill which might be introduced any day, the non-public members bill may be introduced solely on weekday.
- Private members bill has lesser likelihood of being passed.
- As per PRS Legislative, no non-public member's Bill has been elapsed Parliament since 1970. To date, Parliament has passed fourteen such Bills, six of them in 1956.

## **Topic 35: Overseas Citizen of India (OCI)**

### ***Importance for Prelims: Polity***

The government issued a consolidated list of rights that OCI fancy.

- The OCI theme came with the modification of the Citizenship Act in 2005. additional in 2015 it absolutely was integrated with the PIO (Person of Indian Origin) card.
- Individuals United Nations agency don't have citizenship of the other country aren't eligible to achieve associate degree OCI standing.
- Individuals whose folks or grandparents hold citizenship of Asian nation and People's Republic of Bangladesh aren't eligible to use.

**The Ministry of Home Affairs defines associate degree OCI as someone who:**

- Was a national of Republic of India|Bharat|Asian country|Asian nation }|Bharat|Asian country|Asian nation }|Bharat|Asian country|Asian nation } on or when twenty sixth Gregorian calendar month 1950; or Was eligible to become a national of India on twenty sixth Gregorian calendar month 1950; or Belong to a territory that became a part of India when fifteen august 1947; or could be a kid or issue of such a person; or could be a minor kid of the persons from any of the higher than class or either or each of the oldsters area unit voters of India.

**For foreign origin relation of the national of Asian country or associate degree OCI card holder:**

- 1) Whose wedding is registered
- 2) Married for over 2 years before the date of application

**Benefits of OCI card:**

- OCI cardholders will enter Asian country multiple times, get a utile

womb-to-tomb visa to go to Asian country, and area unit exempt from registering with Foreigners Regional Registration workplace (FRRO).

- If a private is registered as associate degree OCI for a amount of 5 years, he/she is eligible to use for Indian citizenship.
- At all Indian international airports, OCI cardholders area unit supplied with special immigration counters.
- OCI cardholders will open special bank accounts in Asian country, obtain the non-farm property and exercise possession rights and might additionally apply for a Permanent Account range (PAN) card.
- On par with the Indian nationals within the matter of domestic air fares, entry fees to monuments and public places. Parity with Non-Resident Indians (NRIs) in adoption of youngsters, showing in competitive exams, purchase or sale of immobile property ejection agricultural land and farmhouses, and following professions like doctors, lawyers, architects, and hired accountants

### **Limitations**

- OCI cardholders don't get vote rights, cannot hold a government job and get agricultural or farmland.
- They cannot trip restricted areas while not government permission. would like previous permission for a group of activities that embrace analysis, journalism, climb, missionary or Tablighi work, and visits to restricted areas

## **Topic 36: Cryptocurrency bill and challenges**

### ***Importance for Prelims: Economy***

The Internet and Mobile Association of India (IAMAI) has claimed that the secrecy shrouds projected Cryptocurrency and Regulation of Official Digital Currency Bill, 2021.

About cryptocurrency

- Cryptocurrency could be a digital or virtual currency that's secured by cryptography, that makes it nearly not possible to counterfeit or double-spend. several crypto currencies area unit localized networks supported block chain technology—a distributed ledger implemented by a disparate network of computers. Ex- Bitcoin and Ethereum

### **Additional information**

- IAMAI aforesaid that the draft bill hardly saw any effort towards consultation.
- The law is projected for existing laws to cope with cryptos area unit inadequate.
- It plans to introduce a law forbiddance interchange all cryptocurrencies — aside from those issued by the govt. itself.
- In 2018, the banking concern of {india|India|Republic of India|Bharat|Asian country|Asian nation} (RBI) had issued a circular forbiddance the supply of banking services to ANy entity exploitation cryptocurrencies (it was indirectly an finish to any or all crypto exchanges functioning within the country) The Supreme Court (Internet and Mobile Association of India vs RBI), however, stricken the circular down on grounds of proportion.
- The belief of proportion entails that any public authority should maintain

a way of proportion between the goal it desires to realize and therefore the suggests that it employs to realize it.

- The S C Garg Committee on cryptocurrencies had earlier raised numerous issues around such assets, holding identical read of a blanket ban. Among the problems raised was that cryptos don't have any of the advantages of enactment currency; which they need a degree of pseudo namelessness.

### **Challenging the ban constitutionally and otherwise**

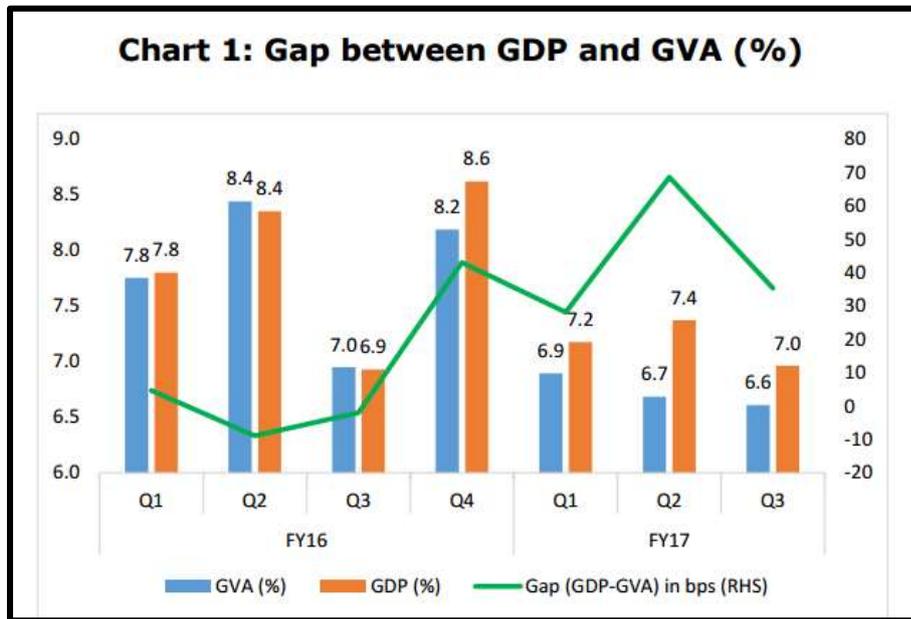
- The current challenge to the bill is additionally on ground of belief of proportion.
- Right to interchange cryptos beneath Article nineteen of the Constitution, that was recognized within the IMAI case the proper to property, particularly since the apex court has antecedently recognized crypto assets as “intangible property”
- Challenge to right to free speech and expression (as North American nation courts have antecedently aforesaid that the cryptography computer code in its ASCII text file type should be protected by the primary Amendment) irresponsibility of call by forbiddance it violates right to equality beneath art fourteen. Ex- In making a financial organization Digital Currency and forbiddance all others, the Centre is also defendant of being whimsical Differentiation between public and personal cryptos is imprecise and confusing value-transfer role doesn't mean it's to be a enactment currency, like within the case of gold or maybe a loyalty points system, which may be with different medium of exchange.
- Pseudo anonumity conjointly doesn't hold as enforcement has been with success able to trace offenders by analysing blockchain and de-anonymizing transactions.

### **About paper currency**

- Fiat cash is government-issued currency that's not backed by a physical artefact, like gold or silver, however rather by the govt. that issued it.

## Topic 37: GVA vs GDP

*Importance for Prelims: Economy*



Report ready by the Finance Ministry's Economic Affairs Department has same that victimisation GVA (Gross worth Added) instead of value (Gross Domestic Products) for pursuit the economy during a higher manner.

- India opted to form major changes to its compilation of national accounts and produce the total method into conformity with the international organization System of National Accounts (SNA) of 2008.
- As per the SNA, gross worth additional, is outlined because the worth of output minus the worth of intermediate consumption and could be a live of the contribution to value created by a private producer, business or sector.
- It provides the rupee worth of products and services created within the economy once deducting the value of inputs and raw materials used.
- GVA is delineate because the main entry on the financial gain aspect of the nation's accounting record, associate degreed from an political

economy perspective represents the availability aspect.

- It provides the rupee worth for the amount product|of products} associate degree services created in an economy once deducting the value of inputs and raw materials that have gone into the assembly of these goods and services.
- In the new series, within which the bottom year was shifted to 2011-12 from the sooner 2004-05, GVA at basic costs became the first live of output across the economy's varied sectors and once additional to web taxes on product amounts to the value.
- Earlier, Bharat had been measure GVA at 'factor cost' until the new methodology was adopted within which GVA at 'basic prices' became the first live of economic output.
- GVA at basic costs can embrace production taxes and exclude production subsidies
- As a part of the information on GVA, the **NSO provides each quarterly and annual estimates of output — measured by the gross worth additional — by economic activity.**
- **The sectoral classification provides knowledge on eight broad** classes that span the gamut of products created and services provided within the economy.

**These are:**

- 1) Agriculture, biology and Fishing
- 2) Mining and production
- 3) Manufacturing
- 4) Electricity, Gas, installation and alternative Utility Services
- 5) Construction
- 6) Trade, Hotels, Transport, Communication and Services associated with Broadcasting

- 7) Financial, property and skilled Services
- 8) Public Administration, Defence and alternative Services.

## **GDP**

- It is that the total financial or value of all the finished merchandise and services created within a country's borders during a specific fundamental measure.
- GDP includes all personal and public consumption, government outlays, investments, additions to personal inventories, paid-in construction prices, and therefore the foreign balance of trade. (Exports area unit additional to the worth and imports area unit subtracted).
- Nominal value is evaluated at current market costs associate degree real value is inflation adjusted live that reflects the amount of products and services created by an economy during a given year, with costs command constant from year to year so as to filter out the impact of inflation or deflation from the trend in output over time.
- GDP is calculated in 3 ways, victimisation expenditures, production, or incomes.

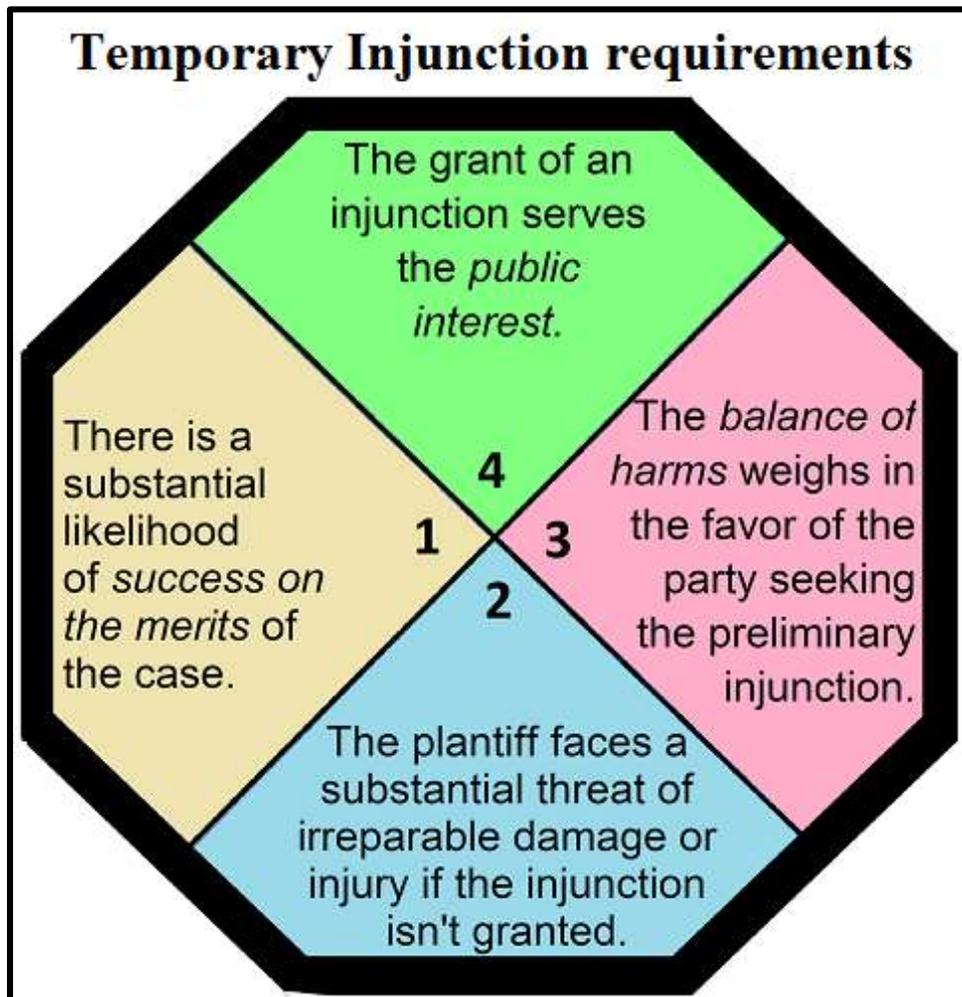
## **GDP and GVA relationship**

- Gross worth additional = value + subsidies on product – taxes on product  
GVA represents supply-side perspective of economy, in contrast to value that could be a demand aspect approach. This makes GVA a decent estimate for policymakers.
- GVA as a live is vital for attracting investment as any country that seeks to draw in capital and investment from overseas will got to adjust to the world best practices.
- GVA is taken into account higher estimate for economy as sharp increase within the output (as measured in GDP) is because of higher tax collections because of factors opt compliance and hardly reflection of

production

**Topic 38: Temporary/Interim injunction**

*Importance for Prelims: Polity*



A Bengaluru court Sabbatum granted a brief media court order in favor of six ministers of the govt. in Karnataka when they expressed apprehension of being defamed.

- Injunction is Associate in Nursing authoritative warning or order issued by the court of equity.
- The statutory that means of Injunctions is analyzed in numerous statutes like beneath CrpC, CPC, and Specific Relief Act,1963 as follows:-
- ❖ Under Code of Criminal Procedure beneath section 133,142 and a

hundred and forty four.

- ❖ Under Civil matters, the law with reference to grant of Injunction is contained in Chapter VII of part III of Specific Relief Act 1963 (sections 36-42).
- ❖ Under Code of Civil Procedure 1908, Order thirty-nine Rule one hundred twenty five deals with Injunctions.
- It has been termed as a preventive relief that is granted at the discretion of the court by Injunction which can be temporary or perpetual.
- Section 37(1) of Specific Relief Act, deals with specific Injunctions that area unit like area unit to continue till a specific time or till additional orders of the court, they will be granted at any stage of the suit or proceedings and area unit regulated by Civil Procedure Code.

### **Types of Injunctions within the Indian Law:**

- Generally speaking, there are 2 sorts of injunctions as mentioned below:
  - 1) Temporary/interim Injunction
  - 2) Perpetual/Permanent Injunction

### **Temporary/interim Injunction**

- Temporary injunctions, because the name suggests, are the injunctions that are given for a selected amount of your time or till the court provides additional order relating to the matter in concern. They will be obtained throughout any stage of the trial and are regulated by the Code of Civil Procedure (CPC), 1908

### **Permanent Injunction**

- A permanent injunction is granted by the court by passing a decree created at the hearing and upon the merits of the suit. Once such decree is passed, the litigant is for good prohibited from the assertion of a right, or from the commission of an act, which might be contrary to the

rights of the litigator.

### **Topic 39: Hybrid hearing**

#### ***Importance for Prelims: Polity***

The top court aforesaid that on a pilot basis, the ultimate hearing/regular matters listed on Tuesdays, Wednesdays and Thursdays, are going to be conducted through hybrid mode.

- A hybrid hearing could be a mixture of a court hearing, wherever the individuals concerned (parties, lawyers, witnesses and also the Judge) attend head to head, and an overseas hearing.
- A remote hearing could be a hearing whereby all those attending do thus via a video link or phone call.
- At a hybrid hearing, the parties can be physically present within the court space. Any combination of the parties, their legal representatives or witnesses will then even be physically present within the court space too. everybody else can attend the hearing remotely.

## **Topic 40: APEDA**

### ***Importance for Prelims: Scheme***



Non-basmati exports to countries in West Asia and a few within the African continent have up over the past few months as they need been building a reserve stock of the cereal, in sight of the Covid-19 pandemic, anticipating a world food scarceness.

### **Basmati Rice:**

- It is one in every of the most effective better-known forms of rice all across the world.
- It is long grain rice that has its origin from Asian nation and a few components of West Pakistan.
- It contains a distinctive position within the rice world because of its worth, fragrance, grain morphology likewise as quality.
- Basmati rice contains a distinctive fragrance and flavour caused because of the presence of a chemical referred to as 2-acetyl-1-pyrroline.
- This chemical is found in basmati rice at concerning ninety components per million (ppm) that is twelve times over non-basmati rice varieties.
- Basmati rice desires specific climate to grow that is why it's cultivated in chosen regions of Asian nation.
- It is cultivated within the states of Himachal Pradesh, Punjab, Haryana, Delhi, Uttarakhand, Madhya Pradesh, Jammu and Kashmir and western state.
- The Ministry of Commerce and trade expects a “major boost” in India’s

rice exports potential, with APEDA's promotion of those cereal grains through collaborations with varied stakeholders within the worth chain.

- Non-basmati and basmati rice kind a significant portion of APEDA's export basket, with nonbasmati accounting for twenty two.52 per cent and basmati around twenty.99 per cent of the authority's total exports.
- India recorded \$2.62 billion in exports of the placental product between April-January 2020-21, down 5.62 per cent from the \$2.78 billion it had shipped throughout identical amount in 2019-20.

### **The Agricultural and Processed Food merchandise Export Development Authority (APEDA):**

- It was established by the govt. of Asian nation below the Agricultural and Processed Food merchandise Export Development Authority Act, gone by the Parliament in December, 1985.
- It could be a statutory body below the Ministry of Commerce and trade and is that the apex organization engaged in work associated with the event of export of agricultural merchandise and processed food from Asian nation.
- It is to blame for putting in place place a system for administration of GI and authentication of the merchandise in Asian nation and abroad.

### **Topic 41: THE GREAT INDIAN BUSTARD**

### ***Importance for Prelims: polity***

The tomcat is one amongst the foremost critically vulnerable species in Republic of India, with fewer than a hundred and fifty birds left within the wild. it's listed as Critically vulnerable in IUCN Red List.

- A 2019 report by the Ministry found out that power lines, particularly high-voltage transmission lines with multiple overhead wires, square measure the foremost vital current threat for GIBs within the Thar region, and square measure inflicting unsustainably high mortality in concerning 15 August 1945 of their population.

### **Wildlife Protection Act, 1972**

- This Act provides for the protection of the country's wild animals, birds, and plant species, so as to confirm environmental and ecological security. Among alternative things, the Act lays down restrictions on searching several animal species. The Act was last amended within the year 2006. Associate in Nursing modification bill was introduced within the Rajya Sabha in 2013 and brought up a commission, however it absolutely was withdrawn in 2015.

### **Constitutional Provisions for the life Act**

- Article 48A of the Constitution of Republic of India directs the State to safeguard and improve the atmosphere and safeguard life and forests. this text was else to the Constitution by the forty second modification in 1976.
- Article 51A imposes bound elementary duties for the individuals of Republic of India. one amongst them is to safeguard and improve the natural atmosphere together with forests, lakes, rivers, and life and to own compassion for living creatures.

### **Schedules of the life Protection Act:**

#### **Schedule I**

- This Schedule covers species.

- These species want rigorous protection and thus, the harshest penalties for violation of the law square measure underneath this Schedule.
- Species underneath this Schedule square measure prohibited to be afraid throughout Republic of India, except underneath threat to human life.
- Absolute protection is accorded to species on this list.
- The Trade of those animals is prohibited
- Examples: tiger, blackbuck, range of mountains bear, Brow- horned ruminant, Blue whale, dolphin, Cheetah, Clouded Leopard, hornbills, Indian antelope, etc.

### **Schedule II**

- Animals underneath this list also are accorded high protection. Their trade is prohibited.
- They can't be afraid except underneath threat to human life.
- Examples: Kohinoor (insect), Assamese Old World monkey, geographic area Hanuman catarrhine, giant Indian civet cat, Indian Fox, Larger Jammu and Kashmir
- Flying Squirrel, Jammu and Kashmir Fox, etc.

### **Schedule III & IV**

This list is for species that aren't vulnerable.

- This includes protected species however the penalty for any violation is a smaller amount compared to the primary 2 schedules.
- Examples: canine, range of mountains rat, porcupine, flying fox, Malabar frog, etc.

### **Schedule V**

- This schedule contains animals which will be afraid.
- Examples: mice, rat, common crow, fruit bats, etc.

### **Schedule VI**

- This list contains plants that square measure out from cultivation.

- Examples: carnivorous plant, blue vanda, red vanda, kuth, etc.

## 5. WiFi 6

Wi-Fi six is that the next-generation wireless commonplace that's quicker than 802.11ac. over speed, it'll offer higher performance in engorged areas, from stadiums to your own device-packed home. Wi-Fi six formally arrived in late 2019, and Wi-Fi 6-enabled hardware was discharged throughout 2020.

- Wi-Fi six accomplishes this through additional economical knowledge cryptography, leading to higher throughput. Mainly, additional knowledge is packed into a similar radio waves. The chips that write and decipher these signals keep obtaining additional powerful and may handle the additional work.

## **Topic 42: Wine country shift**

### ***Importance for Prelims: International Relations***

With global climate change poignant manufacture at the best vineyards, new wine-producing regions like Siam, Dutch East Indies and Myanmar might shortly replace the world's best vineyards.

### **Mediterranean climate:**

- The heat temperate western margin climate or the Mediterranean climate is found between thirty degree and forty five degree North and South of the Equator. This climate is witnessed in comparatively fewer components of the globe and is nearly entirely confined to the western margins of the continental landmasses. the essential reason for this climate is that the seasonal shift of the wind belts.
- The region is very important for fruit cultivation, cereal growing, wine-making and agricultural industries further as engineering and mining. The region could be a internet bourgeois of citrus fruits and also the internet businessperson of farm product.

### **Orchard farming:**

- These regions square measure called the world's grove lands.
- A big selection of citrus fruits grows within the region. Examples: Sunkist oranges of CA, city oranges of Israel.
- The fruit trees have long roots to draw water from depths throughout the long summer months.
- The fruit tree is maybe the foremost typical of all Mediterranean cultivated vegetation.
- Besides these, several nut trees like chestnuts, walnuts, hazelnuts and almonds square measure adult.

- Other necessary fruits square measure peaches, apricots, pears, cherries, plums and figs.