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Success is born of action...

Topic 1. PRODUCTION LINKED INCENTIVE (PLI) SCHEME FOR SPECIALTY STEEL

Importance for Prelims: Government Schemes

Production-linked Incentive (PLI) Scheme for Specialty Steel

- Value added steel grades currently largely imported in India
- Scheme to boost production of high grade specialty steel in the country
- Incentives worth **₹6,322 crores** to be provided over five years
- Scheme to cover coated/plated steel products, high strength/wear resistant steel, specialty rails, alloy steel products, steel wires and electrical steel
- Any company registered in India, engaged in manufacturing of the identified 'specialty steel' grades eligible to participate

Recently, the Union cupboard has approved the assembly connected Incentive (PLI) theme for specialty steel.

- Specialty Steel it's worth intercalary steel whereby traditional finished steel is worked upon by method of coating, plating, heat treatment, etc. to convert it into high worth intercalary steel.
- It will be utilized in varied strategic applications like Defence, Space, Power, aside from automobile sector, specialised capital merchandise etc.
- About Production connected Incentive (PLI) theme for Specialty Steel
The period of the theme are going to be 5 years i.e. from 2023-24 to

2027-28.

- **The 5 classes of specialty steel that are chosen within the PLI theme are:** Coated/Plated Steel merchandise High Strength/Wear resistant Steel Specialty Rails steel merchandise and Steel wires Electrical Steel There are three slabs of PLI incentives, all-time low being four try to highest being 12-tone system that has been provided for electrical steel (CRGO).
- Any company registered in India, engaged in producing of the known ‘specialty steel’ grades eligible to participate.

Topic 2. RBI PLANS DIGITAL CURRENCY PILOTS SOON

Importance for Prelims: Economics

RBI Deputy Governor has declared that the depository financial institution of Bharat could presently conduct pilot comes to assess the viability of victimisation digital currency to form wholesale and retail payments to assist calibrate its strategy for introducing a complete financial institution digital currency (CBDC).

Central bank digital currency (CBDC):

- A financial institution digital currency (CBDC) uses AN electronic record or digital token to represent the virtual kind of a enactment currency of a selected nation (or region).
- Hence they're additionally generally named as digital enactment currencies or digital base cash.
- A CBDC is basically a medium of exchange issued by the financial institution. it's a similar practical capabilities as a enactment currency and is taken into account exchangeable in nature with aforementioned enactment currency during a matched type.
- The solely notable distinction is that the type it takes, i.e., a digital type.
- CBDC would exist with money and existing digital payment ways.
- The gift conception of CBDCs was directly galvanized by Bitcoin, however a CBDC is totally different from virtual currency and cryptocurrency, that don't seem to be issued by a state and lack the medium of exchange standing declared by the govt.
- A CBDC is centralized; it's issued and controlled by the competent financial authority of the country.
- The growing quality of cryptocurrencies like Bitcoin and Ethereum poses a attainable threat to the normal banking industry.
- Also, cryptocurrencies ar related to tons of considerations.

Topic 3. INDIA HAS MUCH TO GAIN BY SUPPORTING AFCFTA

Importance for Prelims: International Organisations

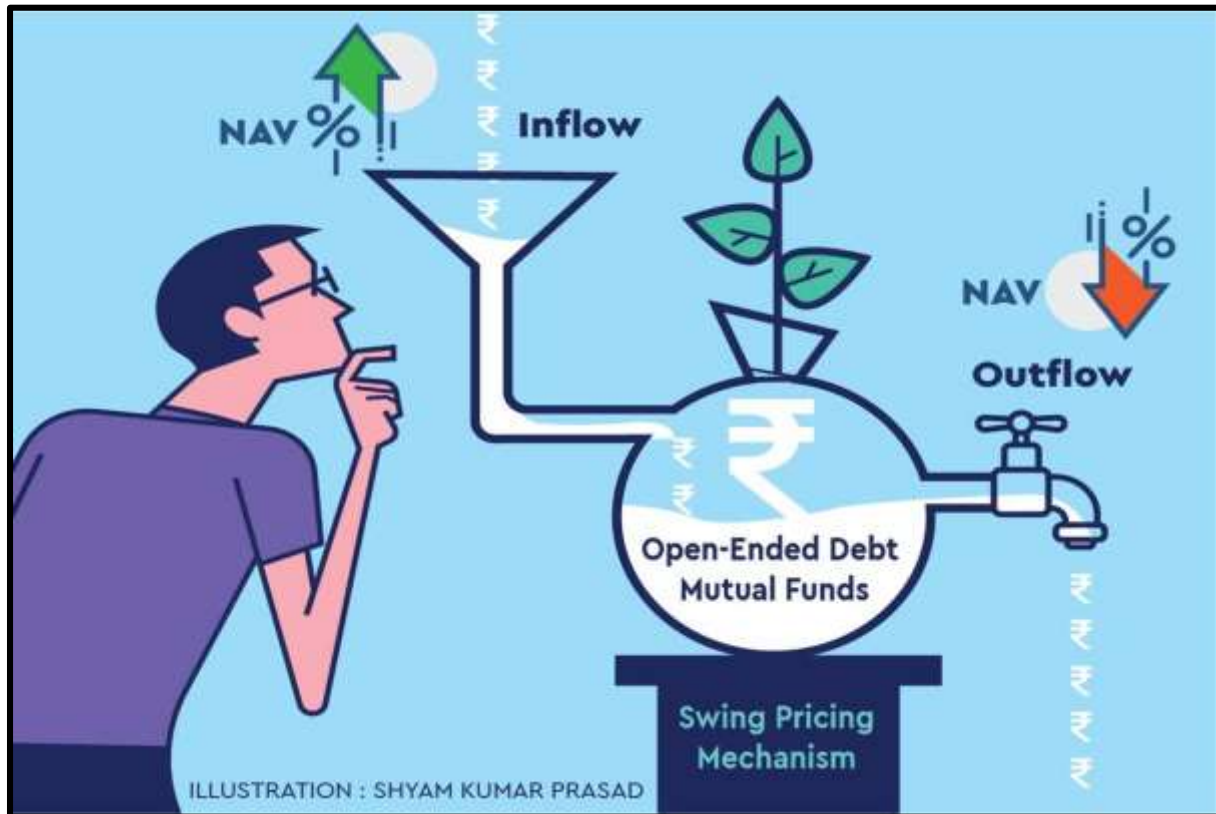
No discussion on Africa nowadays is complete while not the hope and expectations emanating from the Africa Continental trade space (AfCFTA).

- AfCFTA seeks to form one continental marketplace for product and services, with free movement of business persons and investments, and so pave the manner for fast the institution of the Continental union and therefore the African union.
- The AfCFTA preliminary work is on steps like progressive tariff reduction, elimination of non-tariff barriers, provide chains and dispute settlement.
- It establishes the biggest trade space within the world since the creation of the globe Trade Organization in 1995.
- In a world, changing into progressively smitten by African markets and commodities, AfCFTA can have a world impact.
- Background of Africa's economic integration In 1963, the Organization of African Unity was based by the freelance states of Africa.
- The organization aimed to push cooperation between African states.
- The 1980 urban center set up of Action was adopted by the Organization of African Unity.
- The set up prompt that Africa ought to minimize reliance upon the West by promoting intra-African trade.
- In 2002, the Organization of African Unity was succeeded by the African Union, that had collectively of its goals to accelerate the "economic integration of the continent".
- At the 2012 African Union summit in New Flower, leaders united to form a replacement Continental trade space by 2017, that in 2015 negotiations for AfCFTA started.

- The AfCFTA agreement was adopted and opened for signature on twenty first March 2018 in Kigali.
- The AfCTA entered into force on thirty might 2019

Topic 4. SWING PRICING FOR MUTUAL FUNDS

Importance for Prelims: Economics



The markets regulator has floated the construct of swing evaluation in debt mutual funds, which might kick in sometimes of high stress.

- The Securities and Exchange Board of Republic of India (Sebi) on Mon projected a swing evaluation mechanism for mutual funds to stop the collapse in an exceedingly scheme's internet plus price (NAV) sometimes of capitalist exodus.
- The mechanism permits fund homes to regulate a scheme's NAV in response to inflows and outflows, protective long-run unit holders from price erosion throughout serious redemptions. Swing evaluation could be a potential risk-mitigation live for any product with liquidity risk.
- This is especially acute with open-ended debt mutual funds, particularly in times of market stress.
- Even a 10-15% redemption of assets beneath management in an

exceedingly short span of your time will adversely impact the fund.

Topic 5. AMENDING PROCEDURE OF CONSTITUTION

Importance for Prelims: Polity

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- This is especially acute with open-ended debt mutual funds, particularly in times of market stress.
- Even a 10-15% redemption of assets beneath management in a very short span of Part XX of the Constitution deals with its change. beneath Article 368(2), Parliament will amend the Constitution by passing a Bill in every House by a majority of the entire membership of that House and by a majority of not but simple fraction of the members of that House gift and pick. Thereafter, the Bill shall be bestowed to the President UN agency shall offer his assent... and therewith the Constitution shall stand amended.
- Parliament cannot amend those provisions that kind the fundamental structure of the Constitution consistent with the Supreme Court ruling within the landmark 1973 Kesavananda Bharati case.
- FRs and DPSPs ar the 2 most significant provisions that may be amended by the special majority.
- All provisions that don't need agreement by states, and people that return

directly beneath the ambit of Article 368, ought to be amended by the special majority.

- Various Procedures for Amendments [I] straightforward Majority an outsized range of provisions contained within the constitution ar hospitable amendment by an easy majority.

These is also divided into 2 classes:

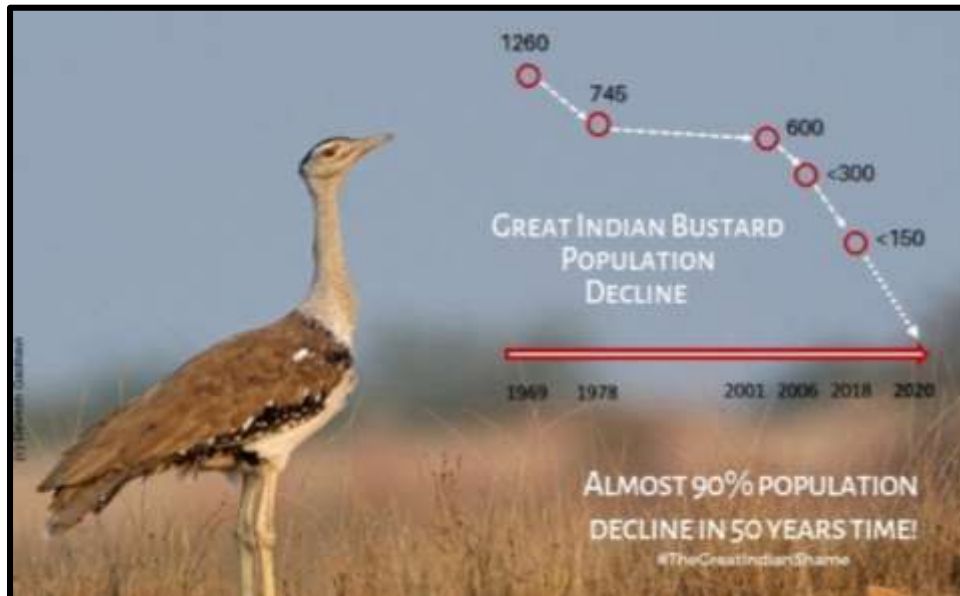
1. wherever the text of the constitution isn't altered however the law is modified Article eleven confers on the Parliament power to enact a law concerning citizenship. AN Act created in pursuance of that power can amendment the law about citizenship while not fixing the text of Article five to ten. Article 124 still refers to the Supreme Court as consisting of the jurist and seven judges. however in exercise of its power the Parliament has accrued the strength of the judges from seven to twenty five.
2. wherever the text of the constitution is modified Formation of latest state. time will adversely impact the fund. Creation or ending of general assembly Creation of council of ministers for Union territories Extending the amount of fifteen years mounted for the employment of English in Article 343 process Parliamentary privileges Salaries and allowances of President, Vice-President, Judges, etc.
 - [II] Special Majority Except those provisions that area unit correctable by a standard majority, the remainder of the provisions need a special majority for change.
 - The change Bill should be lapsed a majority of common fraction of the members of every House gift and ballot and such majority should exceed five hundredth of the overall membership of the House.
 - [III] Special Majority and agreement by half the States Those provisions that relate to the federal structure of the constitution need

special majority in Parliament moreover as agreement by a minimum of half the state legislatures.

- **This procedure is needed within the following provisions:** Manner of election of President govt power of the Union and also the State
- The Supreme Court and also the High Court's Distribution of legislative power between the Union and also the States illustration of states in Parliament Article 368 itself.

Topic 6. GREAT INDIAN BUSTARDS

Importance for Prelims: Environment



The Central government advised the Rajya Sabha that there have been no nice Indian waders (GIB) in catch Bustard Sanctuary (KBS) in Gujarat's catch district as on Gregorian calendar month one this year.

- Great Indian Bustards is that the heaviest birds with flight, GIBs like grasslands as their habitats GIBs ar the biggest among the four wader species found in Republic of India, the opposite 3 being MacQueen's wader, lesser florican and also the geographic area florican.
- They pay most of their time on the bottom with occasional flights to travel from one a part of their surround to the opposite.
- The International Union for Conservation of Nature (IUCN) has categorised GIBs as critically vulnerable, so on the brink of extinction from the wild.
- They take advantage of insects, lizards, grass seeds etc. GIBs ar thought of the flagship bird species of tract and thence barometers of the health of tract ecosystems.
- Recent knowledge The Central government had told the thirteenth

Conference of Parties to the global organization Convention on Migratory Species of untamed Animals (CMS) command in Gandhinagar, that the tom population in Republic of India had fallen to only The Central government advised the Rajya Sabha that there have been no nice Indian waders (GIB) in catch Bustard Sanctuary (KBS) in Gujarat's catch district this year. Spread: The historical vary of those majestic birds enclosed a lot of of Indian sub-continent however it's currently shrunken by ninety per cent, 128 birds were in Rajasthan, ten in catch district of Gujarat and some in geographic area, province and province.

- Pakistan is additionally host some GIBs. Besides the KBS, Prajau, Bhanada and Kunathia-Bhachunda ar necessary grasslands Threats Scientists of life Institute of Republic of India (WII) are remarking overhead power transmission lines because the biggest threat to the GIBs thanks to their poor frontal vision, can't observe powerlines in time and their weight build in-flight fast manoeuvres troublesome.
- Change in landscape by means of farmers cultivating their land, and cultivation of cotton and wheat rather than pulses and fodder also are cited as reasons for falling tomcat numbers.
- Conservation measures In 2015, the Central government launched the tomcat species recovery programme, WII and Rajasthan forest department have conjointly found out conservation breeding centres wherever tomcat eggs harvested from the wild square measure incubated by artificial means and hatchlings raised in controlled surroundings.
- The Supreme Court in April this year ordered that every one overhead power transmission lines in core and potential tomcat habitats in Rajasthan and Gujarat ought to be undergrounded tannic acid wader Sanctuary KBS close to Naliya in tannic acid district's Abdasa block may be a small sanctuary notified in 1992 and contact simply 2 sq. kilometres

(sqkm).

- Its eco-sensitive zone contact 220 sqkm covers most of contemporary core tomcat surround.
- The creation of safe-haven for the birds junction rectifier to a rise within the tomcat population in KBS—from thirty in 1999 to forty five in 2007.
- The sanctuary is delimited on the north by the Jakhau creeks, on the coast of tannic acid.
- Where giant flocks of flamingos, herons, egrets, sandpipers and alternative birds are often seen
- The sanctuary lies within the ecological zone of the semi desert region.
- Hence, the climate is arid, downfall is meagerly and erratic, with a mean annual precipitation of 384 millimetres.

Topic 7. IPO

Importance for Prelims: Economy

In the approaching listing, up to 100% of the IPO issue size are reserved for LIC policyholders, World Health Organization may also forestall to a reduction. The LIC (Amendment) Rules, 2021 say that any reservation created by the Corporation in favour of its policyholders on a competitive basis during a public issue.

- Initial Public providing IPO is that the mercantilism of securities to the general public within the primary market.
- Primary market deals with new securities being issued for the primary time.
- It is additionally referred to as the new problems market.
- It is completely different from secondary market wherever existing securities are bought and oversubscribed.
- It is additionally referred to as the securities market or stock market.
- It is once associate unlisted company makes either a recent issue of securities or a suggestion available of its existing securities or each for the primary time to the general public.
- Unlisted firms are firms that don't seem to be listed on the stock market.
- It is usually employed by new and medium-sized companies that are searching for funds to grow and expand their business.

Topic 8. SERIES A, B AND C FUNDING

Importance for Prelims: Economy

TYPES OF FUNDING ROUNDS FOR YOUR STARTUP				
Funding Round	Pre-Seed	Series A	Series B	Series C
Stage Focus	Proof of concept/ prototype	Revenue growth	Growth	Large scale expansions
Common Elements of Growth	Hiring	Development, Operations, Branding & marketing	Hiring, Market expansion, Buying businesses	Acquiring businesses, International markets
Amount of Investment	\$10K - \$1MM	\$10MM	\$15 - 25MM	~\$50MM

Agnishwar Jayaprakash, founder and corporate executive of Garuda part, was sure a awfully pleasant surprise on Tues morning once he complete that Elon Musk had likeable his tweet on Garuda’s new Hindu deity drone that might probably clean star panels at Singapore’s new floating star farms

- The giant majority of palmy startups have engaged in several efforts to boost capital through rounds of external funding.
- These funding rounds offer outside investors the chance to take a position benefit a growing company in exchange for equity, or partial possession of that company.
- Series A, B and C funding rounds square measure just stepping stones within the method of turning a creative plan into a revolutionary international company, ripe for AN commercialism.
- Series A Funding Once a business has developed a memoir (an established user base, consistent revenue figures, or another key performance indicator), that company might take Series

- A funding so as to any optimize its user base and merchandise offerings. during this spherical, it's necessary to possess a thought for developing a business model which will generate semipermanent profit.
- Series A rounds raise some \$2 million to \$15 million Investors square measure searching for corporations with nice concepts yet as a powerful strategy for turning that concept into a palmy, money-making business.
- The investors concerned within the Series A spherical return from a lot of ancient risk capital corporations.
- It's conjointly common for investors to require half during a somewhat a lot of political method.
- It's common for a number of risk capital corporations to steer the pack.
- In fact, one capitalist might function AN "anchor."
- Once an organization has secured a primary capitalist, it should realize that it's easier to draw in extra investors further.
- Angel investors additionally invest at this stage, however they have an inclination to own abundant less influence during this funding spherical than they did within the seed funding stage.
- Series B Funding Series B rounds ar all regarding taking businesses to ensuing level, past the event stage.
- Investors facilitate start-ups get there by increasing market reach.
- Companies that have skilled seed and Series A funding rounds have already developed substantial user bases and have verified to investors that they're ready for fulfillment on a bigger scale.
- It is employed in bulking abreast of business development, sales, advertising, tech, support, and workers prices a firm a number of pennies.
- The average calculable capital raised in a very Series B spherical is \$33 million Series B seems kind of like Series A in terms of the processes and key players.

- The distinction with Series B is that the addition of a brand new wave of different risk capital corporations that specialise in later-stage finance.
- Series C Funding Businesses that create it to Series C funding sessions are already quite productive.
- These corporations rummage around for extra funding so as to assist them develop new product, expand into new markets, or perhaps to amass different corporations.
- In Series C rounds, investors inject capital into the meat of productive businesses, in a trial to receive quite double that quantity back.
- Series C funding is concentrated on scaling the corporate, growing as quickly and as with success as potential. Series C funding may be wont to get another company.
- In Series C, teams like hedge funds, investment banks, personal equity corporations, and enormous secondary market teams accompany the sort of investors mentioned on top of.
- Companies that do continue with Series D funding tend to either do thus as a result of they're in search of a final push before AN commerce or, instead, as a result of they need not nevertheless been ready to come through the goals they started to accomplish throughout Series C funding.

Topic 9. DISTRICT JUDGE

Importance for Prelims: Polity

The bench comprising Justices dysprosium Chandrachud and Hrishikesh Roy noted that the Trial judges work amidst appalling conditions, The colonial mind-set that pervades the treatment distributed to the district judiciary should amendment, the Supreme Court discovered in a very judgment.

The courts comprised within the district judiciary area unit the primary purpose of interface with voters.

Qualification

1. He ought to are associate advocate or counsel for seven years.
 2. He ought to be counseled by supreme court.
 3. He shouldn't already be in commission of center or state Appointment
 - The appointment, posting, promotion is created by Governor once consultation with supreme court.
 - Other appointments of judicial service area unit created by Governor once consulting supreme court and state public service commission.
 - Appointments of judicial service below district decide area unit created by supreme court.
 - District decide (Civil cases) / Sessions decide (Criminal cases) has highest judicial position in district.
 - He has original and appellant jurisdiction over civil and criminal cases.
- Civil Courts**
- The Court of the District decide is that the highest Civil Court in a very district to wear down Civil Cases is named the Court of District and Sessions decide once it deals with each Civil and Criminal Cases at the district level.
 - The decide of this Court is appointed by the governor of the State.
 - Below the Court of District decide, there is also one or additional Courts

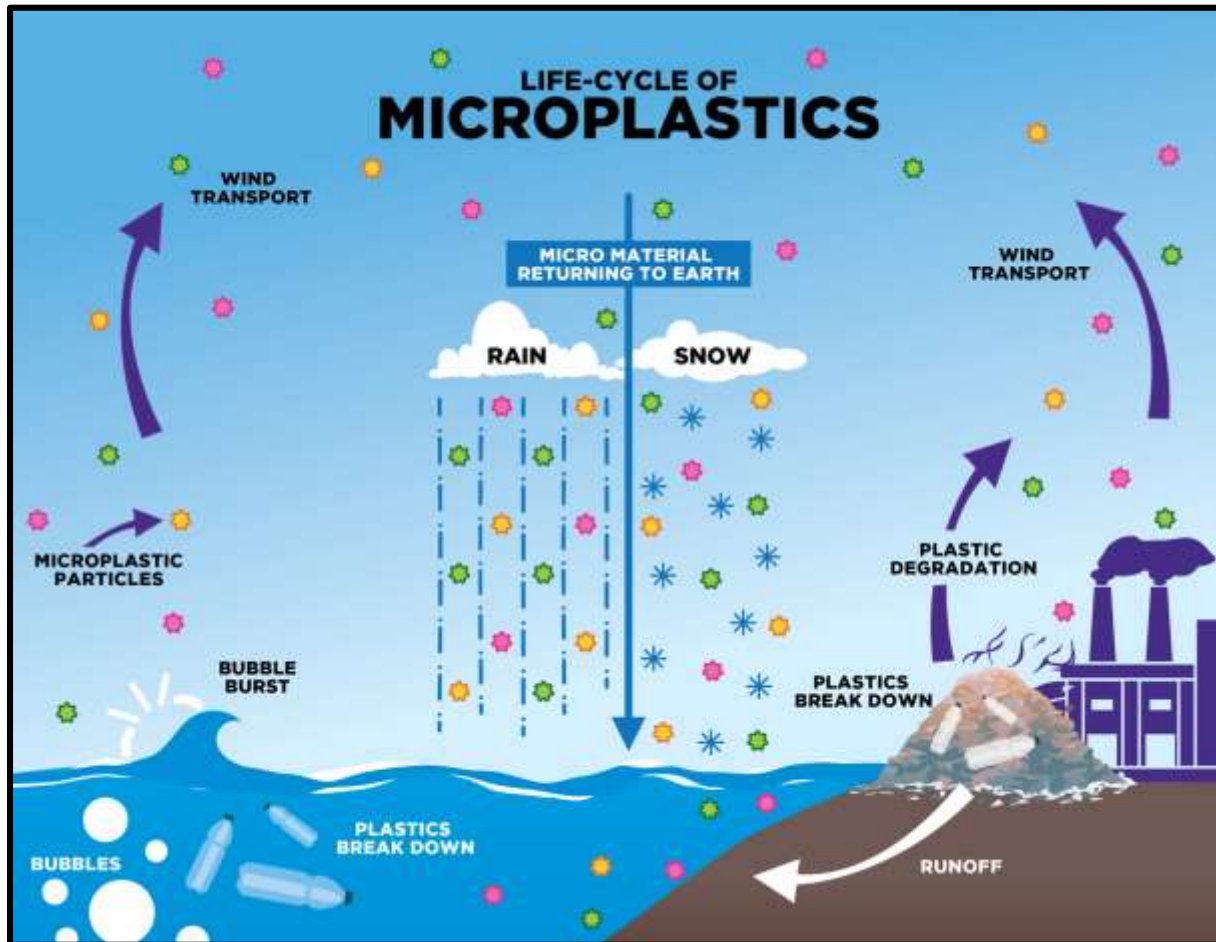
of Sub decide, are established in districts to completely hear Cases Family disputes, like divorce, Custody of kids, etc.

- Below them there are Courts of Munsiffs and little Causes Courts that decide cases involving petty amounts. No attractiveness are often created against the selections of the little Causes Courts.
- All these Courts hear and Settle Civil disputes. Functions and powers
- The Court of the District decide (Called the District Courts) hears not solely appeals against the selections of the Courts of Sub Judges, however conjointly a number of the Cases begin directly within the Court of District decide itself, Appealing against the selections of this Court is also detected by the supreme court of the State.
- Civil Courts wear down Cases concerning disputes between 2 or additional persons concerning property, divorce, Contract and Contract and breach of agreement or landlord-tenant disputes. Criminal Courts
- The Court of the Sessions decide (Known as Sessions Courts) is that the highest Court for Criminal Cases in a very district.
- Below this Court, there are unit Courts of magistrates of initial, Second and Third category.
- In metropolitan cities like Delhi, Calcutta, Bombay and urban center, firstclass Magistrates square measure referred to as Metropolitan Magistrates.
- Functions and powers of these criminal courts square measure competent to undertake the suspect and to award penalisation, as sanctioned by law, to people who square measure found guilty of Violation of law.
- Criminal courts hear criminal Cases that square measure associated with violation of laws. These Cases involve larceny, dacoity, rape, arson, pick-pocketing, physical assault, murder etc.
- It could also be fine, imprisonment or perhaps death sentence.

- Normally each suspect is conferred by the police before a justice. The justice will family get rid of Cases of minor Crime.
- Thus, Sessions Courts attempt the suspect however the corporal punishment are often enforced solely once his Sentence is confirmed by the supreme court.

Topic 10. MICRO PLASTICS

Importance for Prelims: Environment



The Ganga is heavily impure with microplastics at Varanasi, Haridwar and Kanpur, Delhi-based non-profit noxious Link claimed.

- Micro plastics are plastics that are five millimetres in size however are a serious supply of marine pollution.
- Microplastics are found in a very form of product, from cosmetics to artificial vesture to plastic baggage and bottles.
- Many of those product promptly enter the setting in wastes. Properties Microplastics comprises carbon and gas atoms certain along in compound
- Other chemicals, like phthalates, polybrominated diphenyl ethers (PBDEs), and tetrabromobis phenol A (TBBPA), are generally conjointly present in microplastics, and plenty of of those chemical additives leach

out of the plastics once getting into the surroundings Primary and secondary microplastics small plastics square measure divided into 2 types: primary and secondary.

1. Primary microplastics enter the surroundings directly through any of assorted channels—for example, product use (e.g., attention merchandise being washed into waste material systems from households), unintentional loss from spills throughout producing or transport, or abrasion throughout laundry (e.g., wash of wear created with artificial textiles).

2. Secondary microplastics kind from the breakdown of larger plastics; this usually happens once larger plastics endure weathering, through exposure to, for instance, wave action, wind abrasion, and ultraviolet light from daylight.

- Polypropylene Polyacetylene is employed as a doping agent within the industry.
- Polypropylene is additionally utilized in packaging, plastic sheets, fibre, fabrics, rope, etc.
- PIP is principally utilized in footwear and baby bottle nipples.
- Polyamide, normally called nylon, is employed as a natural fiber and as metal wires in wear and business.
- Reasons The density of population within the 3 cities additionally supplemental to the matter as a result of an oversized chunk of pollutants got directly discharged into the stream by individuals living on the banks.
- They square measure non-degradable plastics that always entered the Ganga through industrial waste or packaging of non secular offerings
- The additive downstream pollution still as industrial and human activities Municipal and industrial discharges square measure answerable for microplastics pollution within the stream water

- The discharge from tanneries and different industries like textile.
- Findings The harmful Link's study found that sites at Varanasi showed the utmost load of microplastics within the water of the Ganga, as compared to the opposite 2 cities.
- Assi steps in Varanasi.,Dohrighat in Kanpur square measure the extremely contaminated zones Pollution of every kind multiplied joined cosmopolitan downstream from Haridwar to Varanasi.
- It indicates that the researchers tried to match the microplastics concentration in Ganga water with similar studies on different rivers across the world, just like the Rhine in Europe, the Patapsco, Magothy, Rhode in North America and therefore the Elqui, Maipo, Biobio, and Maule in South America.
- They found the Ganga microplastics pollution was a lot of higher.
- This was in spite of the next per capita consumption of plastic within the European countries, North and South America, as compared to Bharat.
- Impacts Microplastics in stream water, if eaten in humans or different organisms, will cause toxicity through varied suggests that.
- Not solely square measure these microplastics harmful themselves, they even have an inclination to soak up varied toxins gift in water, together with harmful chemicals.
- The study additionally shows that the stream is acting as a carrier of plastics and microplastics and transporting considerably giant quantities into the ocean.
- Microplastics and therefore their impact on marine bodies and the surroundings is documented through varied analysis studies.
- Microplastics may have a heavy impact on human health considering their property to soak up harmful pollutants. Studies required to be obsessed to know this thorough, the study supplemental.

- Recommendations The study conjointly counseled the strengthening of implementation of Extended Producer Responsibility (EPR) in Plastic Waste Management Rules since a great deal of pollution within the Ganga was because of industrial waste.
- EPR place the incumbrance of plastic waste management on the producers or the company's producing the product it conjointly pushes the argument that rivers ought to be declared as 'no plastic zones'.

Topic 11. GLOBAL SURVEY ON DIGITAL AND SUSTAINABLE TRADE FACILITATION

Importance for Prelims: Economy

India has well improved its score on a trade facilitation survey conducted by the world organisation for a complete of 143 countries,

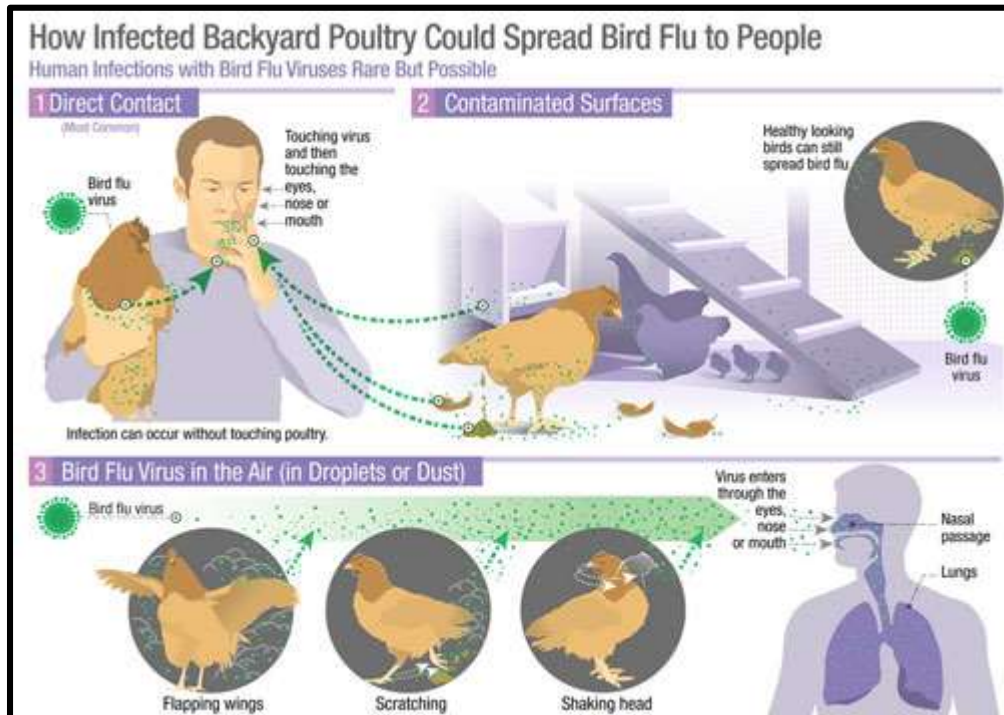
- The survey is conducted each 2 years by UNESCAP Associate in Nursingd includes an assessment of fifty eight trade facilitation measures lined by the globe Trade Organization’s Trade Facilitation Agreement.
- A higher score for a rustic helps businesses in their investment choices.
- The fifty eight measures embrace publications of existing import-export rules on web, risk management, advance ruling on tariff classification, pre-arrival process, freelance charm mechanism facilitated shipments, automatic customs system, Bharat’s Performance India has scored ninety.32 per cent within the world organisation Economic and Social Commission for Asia and also the Pacific’s (UNESCAP) latest international Survey on Digital and property Trade Facilitation, and up from seventy eight.49 per cent in 2019. India’s improvement within the scores on all 5 key indicators — transparency, formalities, institutional arrangement and cooperation, paperless trade and cross border paperless trade.
- Under the transparency indicator, Bharat scored a hundred per cent in 2021, up from 93.33 per cent in 2019.
- The score for ‘paperless trade’ improved to ninety six.3 per cent from eighty one.48 per cent, whereas that for institutional arrangement and cooperation indicator rose to eighty eight.89 per cent from sixty six.67 per cent.
- India is that the best playing nation when put next to the South and South West Asia region (63.12 per cent) and Asia Pacific region (65.85 per

cent).

- The overall score of Bharat has additionally been found to be larger than several OECD countries as well as France, UK, Canada, Norway, Suomi etc.
- The overall score is bigger than the common score of EU Agency guilty The CBIC (Central Board of Indirect Taxes and Customs) has been at forefront of path breaking reforms underneath the umbrella of ‘Turant’ Customs to commence a anonymous, Paperless and Contactless Customs by approach of a series of reforms
- The CBIC additionally created a passionate single window to facilitate fast resolution of problems sweet-faced by importers, it added.

Topic 12. BIRD FLU VIRUS

Importance for Prelims: Science & Technology



While authorities square measure troubled to determine however the 11- year-old boy WHO died of bird respiratory illness in Gurugram shrunken the infection, a team of Indian researchers in an exceedingly all unconnected work has shown that some strains of bird respiratory illness virus square measure near to getting the power to infect higher order animals like mammals.

- The study, dole out by the National Institute of High Security Animal Diseases (NIHSAD) in Bhopal, a constituent laboratory of the Indian Council of Agricultural analysis (ICAR), this is often one amongst the primary studies to report class adaptation markers in H9N2 virus isolated from birds found around 5 wetlands in Maharashtra.
- The study showed the exposure the virus to humans, that appeared in Infection, biological science and Evolution, is vital as a result of it showed that H9N2 viruses have already noninheritable adaptation markers which could facilitate human infection just in case of direct exposure to humans or by manner of blending genes with different gripe

viruses (through what's known as genomic assortment like extremely morbidic vertebrate gripple H5N1, Scientists unravel propensity of vertebrate respiratory illness virus to infect humans and H7N9, among others.

- The scientists found the presence of H9N2 virus in around four per cent samples they tested.
- These wetlands fall within the route of a serious migratory route Central Asian migration route The mutation will unfold to different geographies.
- The gripple viruses square measure quite show host specificity, however once vertebrate gripple viruses still flow into in numerous vertebrate hosts, they may acquire some mutations (changes in their RNA), that facilitate their spill over to humans

Topic 13. PRADHAN MANTRI FORMALISATION OF MICRO FOOD PROCESSING ENTERPRISES (PMFME) SCHEME

Importance for Prelims: Government Schemes

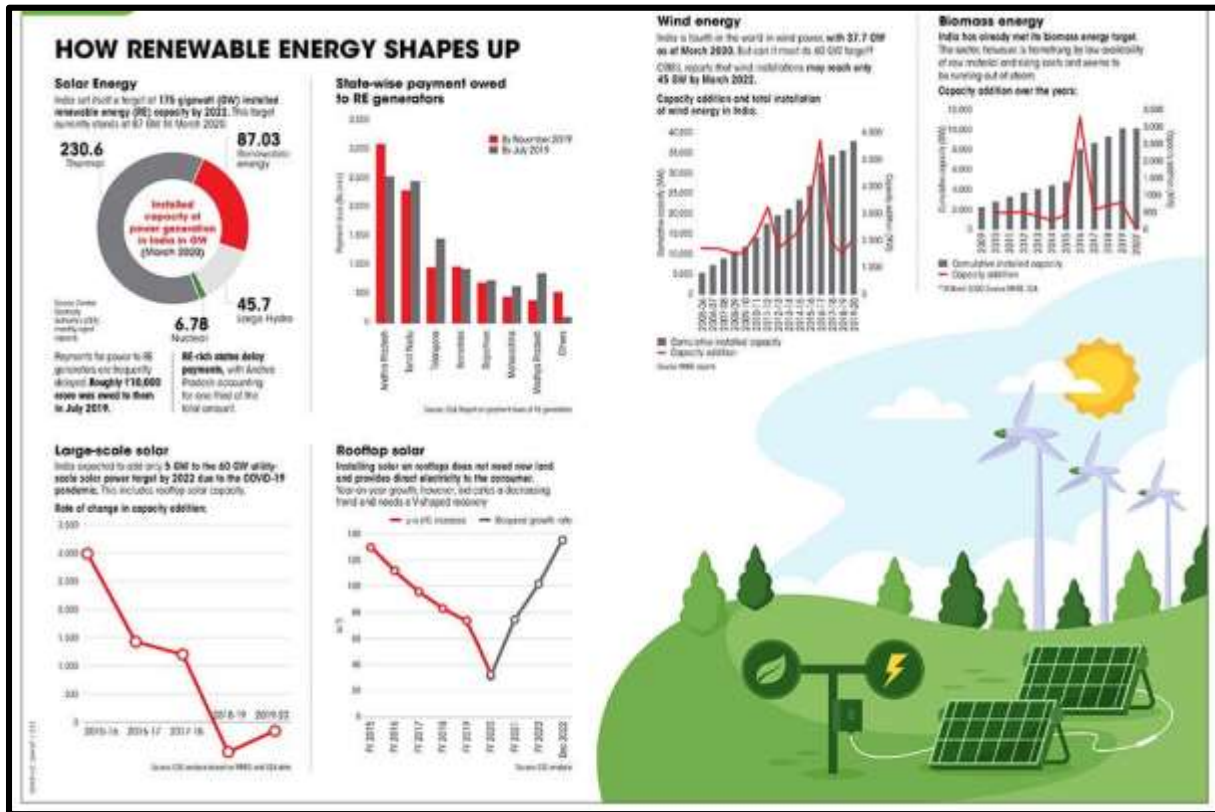
The Food Processing Ministry on Friday said that it is implementing a Centrally sponsored scheme with an outlay of ₹10,000 crore to encourage setting up or up gradation of two lakh micro-food processing enterprises

- Ministry of Food Processing Industry (MoFPI) has launched the Pradhan Mantri Formalisation of Micro food processing Enterprises (PMFME) scheme under the Aatmanirbhar Bharat Abhiyan with the aim to enhance the competitiveness of existing individual micro-enterprises in the unorganized segment of the food processing industry and promote formalization of the sector.
- The scheme to be implemented over a period of five years from 2020-21 to 2024-25 with a total outlay of Rupees 10,000 crore.
- The scheme has a special focus on supporting Groups engaged in Agri-food processing such as Farmer Producer Organizations (FPOs), Self Help Groups (SHGs) and Producers Cooperatives along their entire value chain.
- The PMFME scheme support in terms of: Food processing entrepreneurs through credit-linked capital subsidy @35% of the eligible project cost with a maximum ceiling of Rs.10 lakh per unit. Seed capital @ Rs. 40,000/- per SHG member for working capital and purchase of small tools.
- Credit linked grant of 35% for capital investment to FPOs/ SHGs/ producer cooperatives. Support for marketing & branding to micro-units.
- Support for common infrastructure and handholding support to SHGs, FPOs and Producer Cooperatives.
- Providing Capacity building and training support to increase the

capabilities of the enterprises and up gradation of skills of workers.

Topic 14. RENEWABLE ENERGY PROFILE OF INDIA

Importance for Prelims: Economy



Amid some continued challenges for developers, there's cheer on the renewable energy front because the new capability addition throughout the primary quarter of this financial hit a historic high.

- During April-June 2021 amount, the renewable energy sector more new capability of two,522 MW, compared to the April-June 2019 amount once it more 2151 MW.
- Solar continues to be the foremost driver of recent capability because the phase more a pair of,249 MW throughout Q1 of this financial , whereas the alternative energy phase more 240 MW.
- The increase in new capability addition comes at a time the govt is AN attempt|attempting} to facilitate quicker capability addition because it has set an formidable target of one hundred seventy five GW to be achieved by the top of 2022.

- The total grid-connected capability of renewables stood ninety six.96 GW. Of this, the alternative energy phase accounts for forty two.33 GW, followed by alternative energy at thirty-nine.49 GW and bio power at ten.34 GW.
- Small hydro phase accounted for four.79 GW. Gujarat, geographical region, Karnataka, Rajasthan and Madhya Pradesh square measure rated because the prime five States for the general growth prospects of renewable power comes.
- States were stratified on parameters like power demand, land and transmission handiness, easy doing business, policy framework and discom finance
- The major issues the inconsistent policies, basic duty, unsigned PPAs and poor centre-state coordination, among others.
- The trade mood is amazingly upbeat, buoyed maybe by the massive government targets and robust capitalist craving.
- The biggest concern justifiedly is that the terrible economic condition of our discoms

Topic 15. SPECIAL ECONOMIC ZONE

Importance for Prelims: Economy

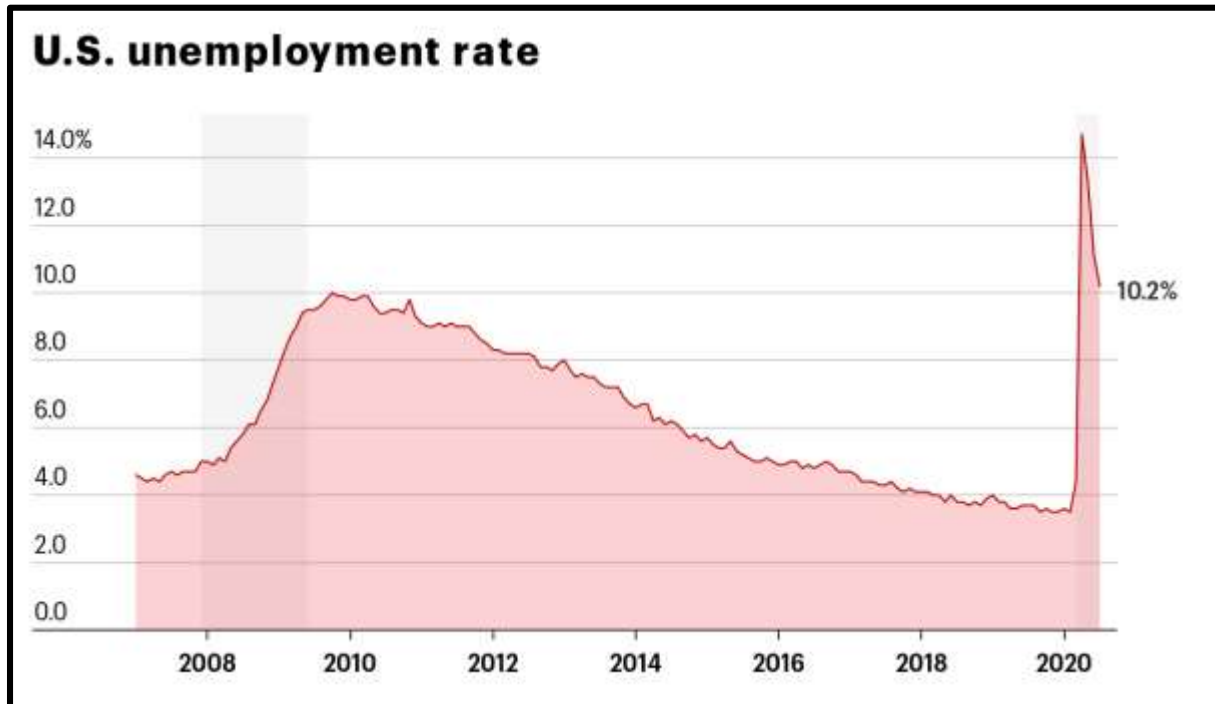
As several as one,096 units were registered throughout the last 3 years in varied SEZs across the country, whereas 336 units exited throughout the amount

- A special economic zone (SEZ) is a neighborhood in a very country that's subject to totally different economic rules than alternative regions at intervals identical country.
- The SEZ economic rules tend to be causative to—and attract—foreign direct investment (FDI).
- FDI refers to any investment created by a firm or individual in one country into business interests set in another country.
- When a rustic or individual conducts business in Associate in Nursing SEZ, there square measure generally extra economic benefits for them, as well as tax incentives and also the chance to pay lower tariffs.
- The economic rules of special economic zones (SEZs) tend to be causative to—and attract—foreign direct investment (FDI).
- Special economic zones (SEZs) square measure generally created so as to facilitate fast economic process by investment tax incentives to draw in foreign investment and spark technological advancement.
- While several countries have started special economic zones (SEZs), China has been the foremost winning in exploitation SEZs to draw in foreign capital. The incentives and facilities offered to the units in SEZs for attracting investments into the SEZs, as well as foreign investment include: – Duty free import/domestic acquisition of products for development, operation and maintenance of SEZ unit's 100 percent revenue enhancement exemption on export financial gain for SEZ units for initial five years, provides to SEZs square measure zero rated below IGST Act, 2017.

- Other levies as obligatory by the several State Governments.
- Single window clearance for Central and State level approvals.

Topic 16. UNEMPLOYMENT RATE

Importance for Prelims: Economy



Labour indicators recorded AN all-around improvement in 2019-20 compared with the previous 2 years, information free by the National applied mathematics workplace (NSO) on Friday showed.

- Unemployment rate is outlined because the share of persons jobless among the persons within the labour force.
- PLFS NSO launched the PLFS in Apr 2017.
- The 1st annual report (July 2017-June 2018) was free in could 2019 per the third annual report on Periodic Labour Force Survey (PLFS), conducted by the NSO between Gregorian calendar month 2019 and Gregorian calendar month 2020, the percent fell to four.8 per cent in 2019-20 .
- In 2018-19, it stood at five.8 per cent and vi.1 per cent in 2017-18.
- CMIE per the Centre for observance of Indian Economy (CMIE), the monthly unemployed rate that rose to twenty three.52 per cent in Apr

2020, it was 10.18 per cent in Gregorian calendar month 2020, CMIE may be a leading business info company.

- It was established in 1976, primarily as AN freelance think factory. CMIE produces economic and business databases and develops specialised analytical tools to deliver these to its customers for deciding and for analysis.
- It analyses the info to decipher trends within the economy.

Topic 17. II SSC INCUBATED MYNVAX TO GET FUNDING TO BRING 'WARM' COVID VACCINE TO MARKET

Importance for Prelims: Science & tech

Mynvax, a vaccine technology startup, incubated by the Society for Innovation and Development (SID) at the Indian Institute of Science, has signed an agreement to boost four.2 million bucks.

- A heat-tolerant COVID-19 vaccine formulation developed by the Indian Institute of Science (IISc) Bengaluru has proved effective against all current SARS-CoV-2 variants of concern, consistent with a study in animals. The analysis, revealed within the ACS Infectious Diseases journal on Thursday, showed the vaccine formulations by IISc-incubated biotech start-up Mynvax triggered a robust reaction in mice.
- The formulation conjointly protected hamsters from the virus and remained stable at thirty seven degrees Celsius up to a month, and at one hundred degrees Celsius for up to ninety minutes, the researchers aforesaid.
- The team, together with researchers from Australia's Commonwealth Scientific and Industrial Research Organisation (CSIRO), noted that the majority vaccines need refrigeration to stay effective.
- Vaccine conjointly remained stable for up to a month at thirty seven degrees Celsius whereas at one hundred degrees Celsius it remained stable for up to ninety minutes.

Topic 18. WORLD HERITAGE SITE

Importance for Prelims: Arts and Culture



A United Nations agency commission report in Gregorian calendar month explicit that large-scale infrastructure comes, as well as the port Waters residential and workplace complicated yet because the Bramley-Moore Dock sports stadium, would mean a loss of the character of the “maritime mercantile city” of port

- The United Kingdom of Great Britain and Northern Ireland ranks eighth within the worldwide list of United Nations agency World Heritage sites. however rather than its previous thirty two distinguished sites, there ar currently solely thirty one.
- Liverpool Waters residential and workplace complicated yet because the Bramley-Moore Dock sports stadium, would mean a loss of the character of the “maritime mercantile city” of port to lose its recognition the explanation ,The global organization body is presently debating that

landscapes, monuments or places ought to be superimposed to the list of World Heritage Sites within the future, World Heritage web site

- The Convention regarding the Protection of the planet Cultural and Natural Heritage supported on Gregorian calendar month sixteen, 1972, the planet Heritage Convention encourages the identification protection and preservation of cultural and natural heritage round the world thought of to be of outstanding worth to humanity.
- It: sets out the duties of States Parties in distinctive potential World Heritage sites set on their territory
- A World Heritage web site may be a place that's listed by United Nations agency for its special cultural or physical significance.
- The list of World Heritage Sites is maintained by the international 'World Heritage Programme', administered by the United Nations agency World Heritage Committee.
- The UN instructional, Scientific and Cultural Organization (UNESCO) seeks to encourage the identification, protection and preservation of cultural and natural heritage round the world thought of to be of outstanding worth to humanity.
- This is embodied in a world pact known as the Convention regarding the Protection of the planet Cultural and Natural Heritage, adopted by United Nations agency in 1972.
- India has thirty eight world heritage sites that embody thirty Cultural properties, seven Natural properties and one mixed web site.
- Criteria for World Heritage sites the most criterion for nomination is that the location should have outstanding universal worth.
- The countries themselves apply and this application is then evaluated.
- The International Council on Monuments and Sites (ICOMOS) is accountable for recommending cultural sites and also the World

Conservation Union (IUCN) selects natural sites.

- The 2 councils create their recommendations.
- The United Nations agency World Heritage Committee, that is formed of representatives from twenty one of the States Parties to the convention, then has the ultimate word.

Topic 19. IMD ALERTS

Importance for Prelims: Geography

The Asian nation meteoric Department (IMD) issued associate degree Orange alert for the districts of Kozhikode, Wayanad and Idukki and a Yellow alert in Thiruvananthapuram, predicting terribly serious rains.

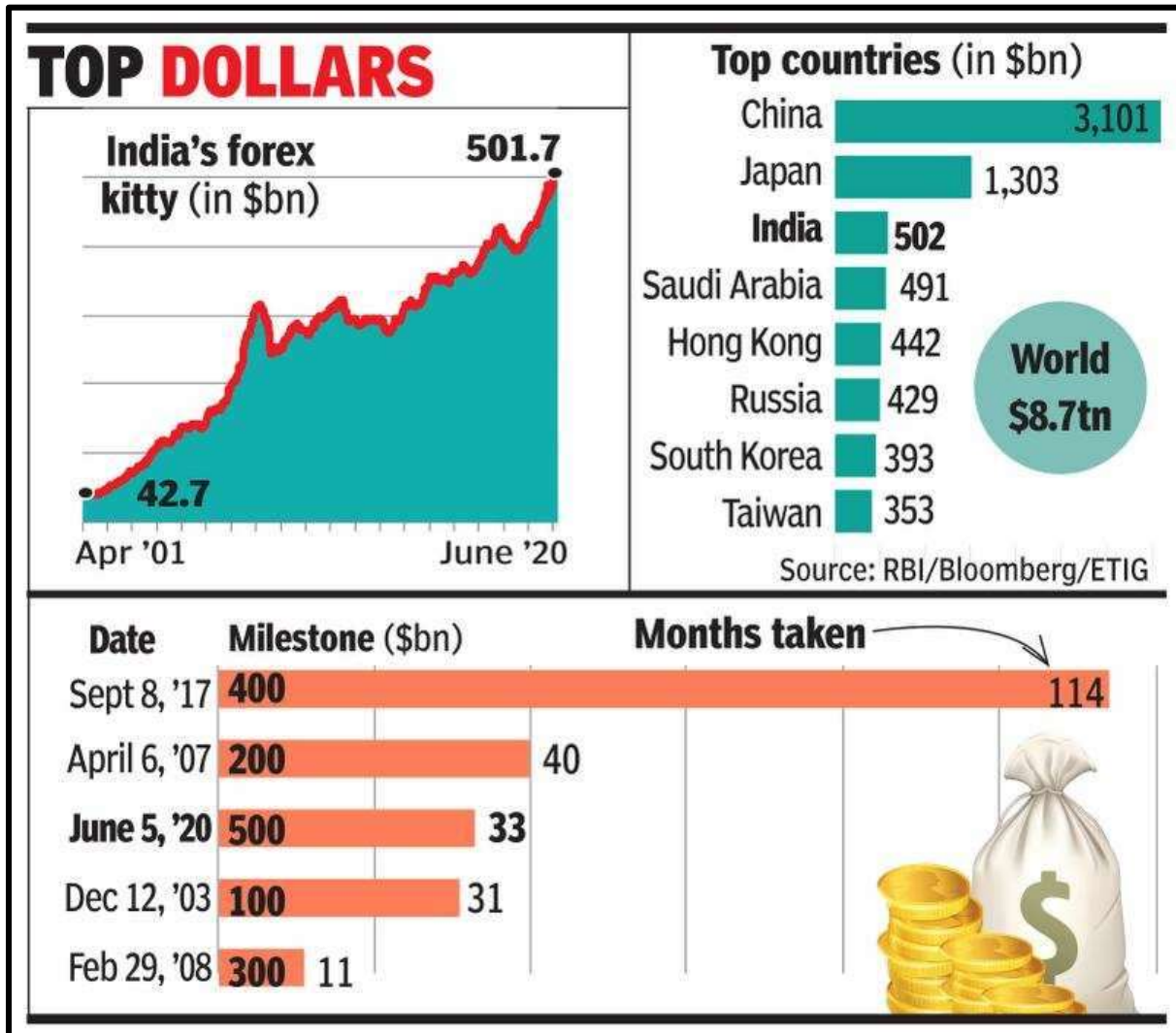
- The meteoric Department problems alerts from time to time supported some selected colors.
- According to the meteoric Department, the selection of those colors for alerts has been set unitedly with many agencies.
- Yellow Alert: The meteoric Department problems Yellow aware of alert folks before serious rain, storm, flood or such natural cataclysm.
- This warning implies that there's an occasion of serious rain of seven.5 to 15 mm. The rain is probably going to continue for a number of hours when the alert is issued. there's additionally the chance of flooding.
- Blue Alert: once there's an occasion of rain with thunderstorms, thunderstorms, then the department typically problems a blue alert.
- During this, there's an occasion of rain and thunder in several areas.
- Orange Alert: per the meteoric Department, once there's an occasion of terribly weather thanks to cyclone and there's an occasion of loss of life and property, then associate degree orange alert is issued.
- During the Orange Alert, folks square measure suggested to remain in their homes.
- The wind speed within the cyclone is sixty five to seventy five kmph. Also, there's an occasion of fifteen to thirty three metric linear unit of rain.
- Red Alert: As is evident from the color it, red may be a danger sign.
- There may be a risk of serious loss in alert.
- When a cyclone comes with high intensity, like within the event of

serious rains, the wind speed reaches one hundred thirty kilometer per hour or a lot of, then in such a scenario a alert is issued.

- In alert, the administration is asked to require necessary steps

Topic 20. FOREX RESERVES

Importance for Prelims: Economy



Maintaining a run, the forex reserves vainglorious by \$835 million to succeed in another record high of \$612.73 billion within the week concluded July sixteen, 2021, knowledge from the banking company of Asian nation (RBI) showed.

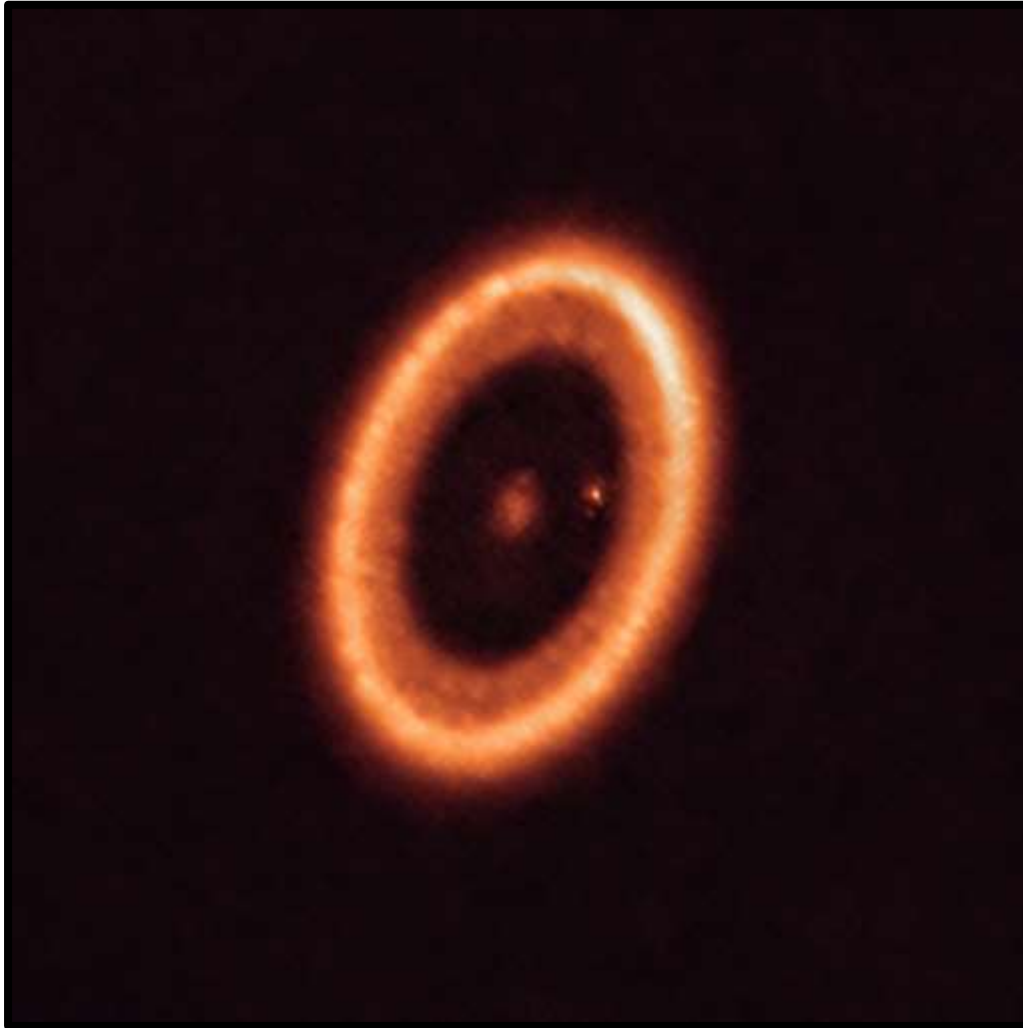
- The FCA a significant part of the reserves — rose by \$463 million to \$568.748 billion within the news week.
- Foreign currency assets embody the result of appreciation or depreciation of non-US units just like the monetary unit, pound and yen command within the interchange reserves.
- Gold reserves were up by \$377 million to \$37.333 billion within the news

week, the info showed.

- The special drawing rights (SDRs) with the International fund (IMF) were up by \$1 million at \$1.548 billion.
- The country's reserve position with the United Nations agency declined by \$7 million to \$5.1 billion within the news week, the info showed.
- Impact The rising forex reserves may bring some comfort to the govt. additionally because the run batted in in managing the external and internal money problems at a time once the economy is facing it's a giant cushion within the event of any crisis on the economic front and enough to hide India's import bill for a year.
- An increase within the forex kitty may additionally facilitate strengthen the rupee against the USA dollar.

Topic 21. PDS 70

Importance for Prelims: Science



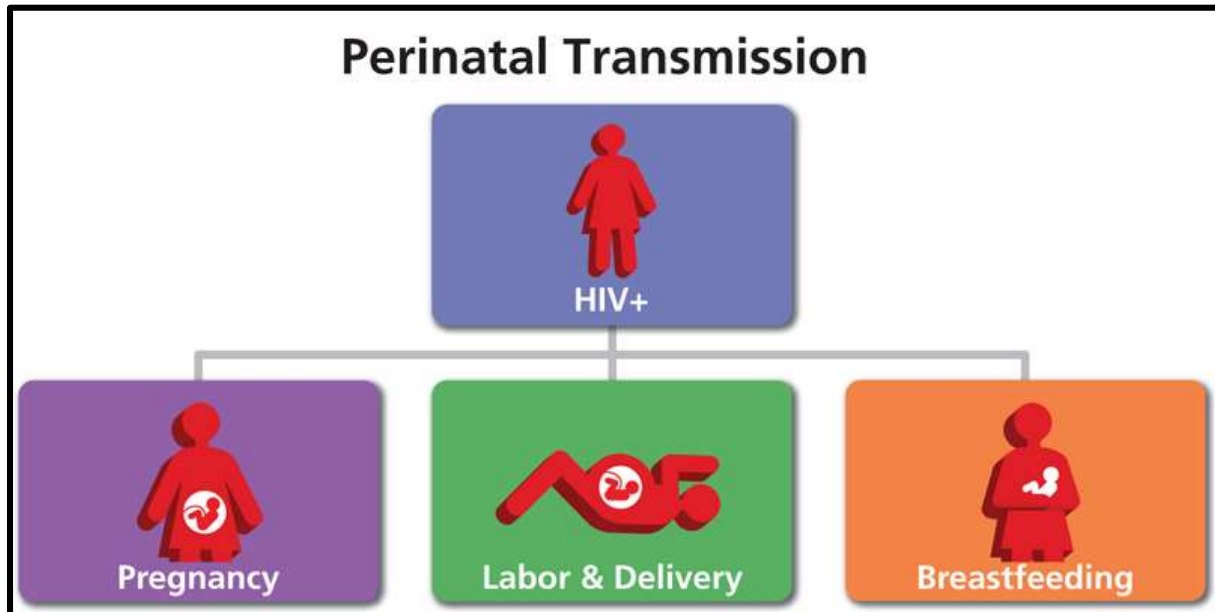
Scientists for the primary time have noticed a moon-forming region around a planet on the far side our system

- The researchers used the ALMA observatory in Chile's desert to sight the disc of whirling material accumulating around one in all 2 new-born planets seen orbiting a young star known as PDS seventy, set 370 light-weight years from Earth.
- (A astronomy unit is that the distance light-weight travels during a year, about 9.5 trillion km) PDS seventy It's a Jupiter-like world encircled by a disc of gas and mud large enough that it may spawn 3 moons the dimensions of the one orbiting Earth.

- More than four,400 planets are discovered outside our system, known as exoplanets.
- No circum planetary discs had been found hitherto as a result of all the acknowledged exoplanets resided in “mature” – absolutely developed – star systems, except the 2 child gas planets orbiting PDS seventy.
- In our system, the spectacular rings of Saturn, a planet around that over eighty moons orbit, represent a relic of a early moon-forming disc, The orange-coloured star PDS seventy, roughly constant mass as our Sun, is concerning five million years previous. the 2 planets ar even younger.
- Both planets ar similar (although larger) to Jupiter, a Jovian planet.
- It is PDS 70c a moon-forming disc was ascertained Birth of a moon Stars burst to life among clouds of heavenly body gas and mud scattered throughout galaxies.
- Leftover material spinning around a brand new star then coalesces into planets, and circumplanetary discs close some planets equally yield moons.
- The dominant mechanism thought to underpin planet formation is termed “CORE ACCRETION,” Core accretion Core accretion happens from the collision and activity of solid particles into bit by bit larger bodies till a colossal enough planetary embryo is created (10-20 Earth masses) to accrete a vaporish envelope.
- A situation wherever, tiny mud grains, coated in ice, bit by bit grow to larger and bigger sizes through serial collisions with different grains.
- This continues till the grains have grownup to a size of a planetary core, at that purpose the young planet encompasses a robust enough gravitative potential to accrete gas which is able to type its atmosphere.

Topic 22. PERINATAL TRANSMISSION

Importance for Prelims: Science and Tech



A study printed within the journal Indian pediatrics has claimed that Covid19 are often transmitted from associate degree infected mother to a baby throughout the perinatal amount.

- Perinatal transmission is outlined new-born checking positive within the RT-PCR test for Covid-19 within the 1st seventy two hours once birth and might embody transmission which will have occurred within the female internal reproductive organ or throughout birth.
- Findings The study additionally suggests redoubled morbidity in infected infants, with a big correlation with premature births, indicating at the chance of redoubled risk of lying-in in Covid-positive pregnant girls.
- The study additionally found that SARS-CoV-2 positive new-borns square measure a lot of probably to be symptomatic, a lot of probably to own metastasis symptoms, and different baby morbidities however no important increase in mortality was seen.
- Covid-19 positive neonates were 5 times a lot of probably to be symptomatic compared to Covid-19 negative neonates and double a lot of

probably to wish revival.

- Respiratory distress, pneumonia, sepsis, seizures, septic shock, jaundice and different morbidities were considerably higher in Covid-19 positive intramural neonates compared to those that tested negative.
- The World Health Organization (WHO), however, recommends that neonates ought to be roomed-in with mother and solely breastfed whereas following precautions to limit the unfold infection to neonates.
- Horizontal transmission Vs Vertical transmission In horizontal transmission, viruses square measure transmitted among people of identical generation, whereas vertical transmission happens from mothers to their offspring.
- Vertical transmission refers to the transmission of associate degree infection from a pregnant girl to her kid.
- It are often antepartum (before birth), perinatal(weeks instantly before or once birth) or postnatal (after birth).
- This is of grave concern not simply because it will probably cause a newborn to be terribly sick, however additionally as a result of the mechanism of however and once this happens isn't continually terribly clear Among infections of that vertical transmission has been notable to happen square measure HIV, Zika, epidemic roseola and therefore the herpes.
- In fact, one among the most important worries regarding the Zika irruption some of years past was the chance of babies being born with birth defects.

Topic 23. INDIA-CHINA DEAL ON GOGRA AND HOT SPRINGS

LIKELY SOON

Importance for Prelims: International Relations / Defence



India associate degreeed China square measure set to carry the twelfth spherical of Corps Commander-level talks aimed to partitioning the standoff in jap Ladakh presently and an agreement for disengagement at Gogra and Hot Springs is probably going to be reached

- China had planned the twelfth spherical of Corps Commander-level talks on Monday, but India, that observes Gregorian calendar month twenty six as Kargil Day to commemorate the conclusion over Islamic Republic of Pakistan within the 1999 Kargil War, asked for the discussions to be delayed by some days.
- The Corps Commander-level talks square measure currently probably to require place within the initial week of August, or maybe earlier, sources aforementioned.

- The last Corps Commander-level talks to debate the disengagement and ultimate diminution in Jap Ladakh, wherever Asian nation and China square measure concerned during a stand-off since might 2020, were command in April this year.
- Kargil Vijay Diwas The Kargil Vijay Diwas is marked on Gregorian calendar month twenty six. it's celebrated within the honour of Kargil war heroes.
- The Kargil conflict is additionally observed as Operation Vijay.
- There were 3 major phases in Kargil war.
- First, Islamic Republic of Pakistan captured the Indian controlled section of Jammu and Kashmir at varied high points.
- In the second part, Asian nation responded by capturing many strategic high points. within the third part, Asian nation succeeded in pushing the Pakistani forces back to the road of management.
- During the war, the Indian Air Force launched Operation Safed Sagar. The war was fought with nice difficulties.
- This is as a result of Kargil, the positioning of conflict is found at a height of around sixteen,000 to 18,000 feet higher than the ocean level.
- Thus, the aircrafts were needed to fly at twenty,000 feet.
- At these heights, the density of air is half-hour less as compared to it of the ocean level.

Topic 24. THE ADVERTISEMENT STANDARDS COUNCIL OF INDIA

Importance for Prelims: National Organisation



The Advertising Standards Council of Asian country (ASCI), was inundated with complaints regarding Covid-related claims in numerous advertisements.

- According to its annual report, of the 332 ads with Covid-related claims that it picked up, solely twelve were ready to substantiate the claims.
- The packaging Standards Council of {india|India|Republic of Asian country|Bharat|Asian country|Asian nation} The packaging Standards Council of India (hereinafter, “ASCI”) was established within the year 1985 beneath Section twenty five of the businesses Act, 1956.
- It has been outlined as a “voluntary, self-regulatory council” that has been registered as a non-profit company.
- The ASCI team consists of a Board of Governors, members of the buyer Complaints Council and a Secretariat.
- The Board of the ASCI consists of a governor and sixteen members, that comprise of members of prestigious companies as well as media agencies, advertisers and different people involved the advertising

business.

- It is vital to notice that the ASCI isn't a government body and isn't responsible for formulating rules for the overall public.
- The client Complaints Council is that the body to blame for examining and investigation complaints from customers and therefore the public at massive in respect to any resistance of the Code of Conduct of the News Broadcasting Associations and advertizement ethics.
- Functions The ASCI has adopted a automatic code, in its commitment to any the interests of the customers.
- The ASCI conjointly invite complaints from customers against any such unfair, untruthful and false claims and advertisements; all of such complaints ar examined severally by the patron Complaints Council.
- ASCI picked up advertisements of many alternative classes like paints, apparel, detergents, skin care, ACs, fans, water purifiers, plyboard and laminates, supplements and food – all promising Covid-related edges,
- It deals with complaints associated with on-line real cash recreation ads in Jan-March 2021 and discharged careful tips for the arena
- It examines whether or not the advertisements ar in violation of The medication and Magic Remedies Act.
- Laws regarding unfair trade practices Anti-trust or competition law in Bharat has provisions to shield the customers against “unfair trade practices”.
- The Competition Act, 2002 prohibits the creating of any illustration to the general public that is fake or dishonest in a very “material respect”.
- An unfair trade observe means that the observe of promoting sale, use or offer of Associate in Nursingy merchandise or services in a very manner that involves an “unfair method” or “unfair deceptive practice”.
- Rule 7(9) of the Cable tv Network Rules, 1994 provides that “No

advertisement that violates the standards of observe for advertising agencies as approved by the Advertising Agencies Association of Bharat, Bombay, from time to time, shall be carried within the cable service. Consumer's right There is same to be 2 classes of deceptive advertisements.

- The initial kind pertains to the violation of the consumer's right to info and to selection.
- Such advertisements relate to non-health problems which will cause mental agony and, or loss to the patron.
- The second reasonably deceptive advertisements embody health and nutrition connected claims, and that they ar a violation of the proper to safety of the patron and may cause prejudice to the health of customers.
- Steps Taken Ministry of AYUSH issued a directive to restrict on deceptive Ayurveda ads, and asked the ASCI to spot ads that desecrated its consultatory.
- ASCI had issued consultatory urging advertisers to completely substantiate their Covid-related claims through recognised testing facilities.
- It has enforced the influencer advertising tips, creating it necessary for influencers to label promotional content in their posts.
- In the year 2016, the Ministry of data & Broadcasting forged a mandate on all commercials and advertisements to follow the ASCI Code

Topic 25. AGRICULTURE INFRASTRUCTURE AND DEVELOPMENT CESS (AIDC)

Importance for Prelims: Economy

As a part of its effort to rein inflation, the Finance Ministry on Monday move zero the duty on masur dekalitre. However, the lentil can attract ten per cent Agriculture Infrastructure and Development Cess (AIDC). The Centre cut the cess on all lentils to ten per cent from twenty per cent as a part of its effort to regulate the economic process.

- Cess may be a quite special-purpose tax that is levied over and on top of basic tax rates.
- The AIDC was introduced within the Budget 2021 the aim of the new AIDC is to lift funds to finance defrayal on developing agriculture infrastructure.
- Due to low personal investment in agriculture, the Centre currently seeks to lift an avid fund to fulfill these expenses
- The new cess are levied on twenty nine merchandise, distinguished among that area unit gold, silver, foreign apple, foreign alcohol (excluding beer), foreign pulses, foreign oil, foreign organic compound, and petrol/diesel as well as branded ones
- The AIDC is projected to be accustomed improve agricultural infrastructure aimed toward not solely boosting production however additionally in serving to conserve and method farm output with efficiency.
- Cess A cess obligatory by the central government may be a tax on tax, levied by the govt for a selected purpose.
- Generally, cess is anticipated to be levied until the time the govt gets enough cash for that purpose.
- For example, a cess for funding primary education – the education cess

(which is obligatory on all central government taxes) is to be spent just for funding primary education (SSA) and not for the other functions.

- A cess is totally different from the same old taxes like excise duty and private taxation because it is obligatory as a further tax besides the prevailing tax (tax on tax).
- For example, the education cess of three on income tax of half-hour is obligatory as a tax on the prevailing half-hour.
- As a result, the whole rate goes up to thirty.9% (30% basic rate + three-d (cess) of the 30%).
- But some cess just like the Swachh India Cess (SBC) is obligatory as proportion tax on total price.
- Here the SBC is zero.5% of the worth of the services.
- Tax revenue from Cess square measure initial attributable to the CFI and also the Central Government could, once due appropriation created by Parliament, utilize the money for the required functions.
- For example, the income square measure unbroken as Central Road Fund (CRF) within the case of fuel cess (on hydrocarbon and diesel).
- Another major feature of cess like surcharges is that the Centre needn't share it with states.
- At gift, the most cess are: education cess, road cess or (fuel cess), infrastructure cess, clean energy cess, krishikalyancess and swachhbharatcess.
- Power to levy Cess Articles 270 and 271 of the Constitution, provides power to the Centre to gather cess and deposits it within the Consolidated Fund of Asian nation.
- However, the money is then imagined to be transferred to a separate fund to be used for specific purpose.
- The cash collected through cess and surcharge aren't a part of the

severable pool, from that devolution of Central taxes takes place to the States Effects The tax element within the final value can stay an equivalent for many of the product.

- The shopper won't see any modification in his/her bill and it's the duty of the businessperson and producer to form specific entry whereas filing tax/duty returns.
- It is States that require to fret as they will get less cash in line with the devolution formula.
- This may have an effect on some States' specific welfare schemes

Topic 26. COLLATERAL MARGIN

Importance for Prelims: Economy

The Securities and Exchange Board of Asian nation (SEBI) came up with a recent circular last week to strengthen the collateral margin coverage mechanism within the stock markets.

- Collateral margin is that the further funds received for commercialism or finance by pledging securities command in shoppers demat account.
- The collateral quantity is basically a loan offered by a factor against the shares command in client's demat account.
- The collateral quantity is additionally said because the collateral margin.
- It will facilitate shopper increase commercialism limit by increasing the number of funds offered in commercialism account.
- When the shopper avail this service, shopper essentially pledge the shares command in shoppers demat account with factor.
- The factor, in turn, provides shopper with a loan by enhancing client's commercialism limit rather than disbursing profit exchange for providing this service, the broker sometimes charges a hard and fast proportion of interest.
- When shopper pledge the securities offered in shoppers demat account, area unit{they're} command as collateral and are quickly blocked.
- This prevents client's from commercialism the securities until the margin availed by client's is repaid to factor fully.
- Upon reimbursement of the margin together with the accumulated interest, the collateral command is free.
- Clients area unit then unengaged to either sell or transfer the shares as per the wants.
- In case shopper unable to repay the collateral quantity, the factor is unengaged to sell the pledged shares and recover the loan quantity.

- Regulation The Securities and Exchange Board of Asian nation (SEBI) came up with a circular last week to strengthen the collateral margin coverage mechanism within the stock markets.
- According to that, commercialism members, clearing members and clearing firms currently ought to offer client-wise collateral info.
- The market intermediaries can ought to report disaggregated info regarding shopper pledging through an internet portal.
- This portal can have all the knowledge on the worth of securities pledged the ability isn't restricted to shares and may be availed against fund units, bonds, gold ETFs and stuck deposits
- According to SEBI's new collateral margin news mechanism can get result on Oct one, 2021, want for rules Reports of stock exchange investors losing access to the shares command in their demat account as a result of their brokers had pledged their securities while not their information, to satisfy collateral needs of alternative shoppers.
- It was common practise to carry shopper collateral in an exceedingly shared pool that might be used at the broker's discretion.
- Clients gave their brokers as power of professional person (POA) to handle their demat on their behalf.
- The broker mechanically taken shares of equivalent price from client's demat account.
- But the rule enforced in Gregorian calendar month modified the mechanism in order that the pledging method will solely be initiated by shopper.
- Unless shopper avail of margin, the broker would merely say that the trade couldn't be dead attributable to scarce margin.
- Advantages SEBI's new rules have additional additional steps to the once seamless method of availing collateral margin,

- It offers shopper the management over the securities command demat account, cannot transfer them although shopper have given a genus Poa.
- This conjointly prevents the potential misuse of securities by brokers through pooling of collateral.
- If client's shares area unit pledged, these will not move out of client's demat account.
- Instead, they'll be labeled as pledged in order that they can not be sold-out unless the pledge is free.
- The details of the pledged shares are going to be on the market within the internet portal.
- This move aims to extend the transparency of the choice of SEBI wherever it place in situ a mechanism for pledging of securities.

Topic 27. DEFINITION OF 'FOREST AREA'

Importance for Prelims: Environment

What is Considered a "Forest?"

FOREST RESOURCES ASSESSMENT (FRA) adopts a common definition of "forest" to monitor global forest area based on biophysical and land use criteria.



GLOBAL FOREST WATCH (GFW) monitors all forms of tree cover to detect loss and gain based on biophysical criteria, and uses the term "tree cover" instead of "forest".



Minister for surroundings, Forests and global climate change on weekday hip to Rajya Sabha that the recorded forest space within the country is seven,67,419 sq km, as surveyed by the Asian country State of Forest Report, 2019.

- The recorded forest space within the country, 4,34,853sq metric linear unit make up the Reserved Forests class, 2,18,924 sq metric linear unit beneath the Protected Forests class, and 1,13,642 sq metric linear unit ar of unclassified forests.
- Define 'forest' The term 'forest' is however to be outlined by the Centre.
- "The word 'forest' isn't outlined in any Central Forest Act, specifically the Indian Forest Act (1927), or the Forest Conservation Act (1980).
- Rights like that of grazing of animals ar usually not recorded, and also the local people doesn't got to be consulted if the land were to be reclassified

as 'forest' and pleased by the forest department.

- This usually ends up in disputes between native communities and governments The Indian Forest Act, 1927 The Indian Forest Act, 1927 aimed to manage the movement of forest turn out, and duty leviable forest turn out.
- It conjointly explains the procedure to be followed for declaring a locality as Reserved Forest, Protected Forest or a Village Forest.
- This act has details of what a forest offence is, what are the acts prohibited within a Reserved Forest, and penalties leviable on violation of the provisions of the Act.
- After the Forest Act was enacted in 1865, it absolutely was amended doubly (1878 and 1927).
- The Central government has not ordered down any criterion to outline forest The land that's demarcated as forests beneath the Indian Forest Act, 1927 by the Forest Department this type of land might or might not even have a forest standing thereon.
- In case of a tussle between the Forest and therefore the Revenue Departments over land, it's the state that is answerable for categorising forest land, and it's the states that resolve dispute between these 2 departments.
- The Indian Forest Act, 1927 provides states the rights to advise Reserved Forests in their areas.

Types of forest Reserved Forests:

- Reserve forests square measure the foremost restricted forests and square measure brought about by the government on any forest land or wild that is that the property of the govt.
- In reserved forests, native individuals square measure prohibited, unless specifically allowed by a Forest Officer within the course of the

settlement.

Protected Forests:

- The government is sceptred to represent any land apart from reserved forests as protected forests over that the govt has proprietary rights and therefore the power to issue rules relating to the utilization of such forests.
- This power has been accustomed establish State management over trees, whose timber, fruit or alternative non-wood merchandise have revenue-raising potential.

Village forest:

- Village forests square measure the one {in that|during which|within which} the government might assign to ‘any village community the rights of presidency to or over any land which has been brought about a reserved forest’.

Degree of protection:

- Reserved forests > Protected forests > Village forests The Forest Conservation Act (1980) This Act has created the restrictions on the government and alternative authorities to create choices in some matters while not the previous permission of the central government.
- Under this Act, the total power is within the hand of the Central government to hold out the laws of this Act.
- This Act additionally provides penalties for the infringement of the provisions of this Act.
- Under this Act, associate consultive committee could also be shaped for advising the Central government in matters associated with forest conservation.

Topic 28. THE WASTELAND ATLAS 2019

Importance for Prelims: Environment

It was revealed by the Ministry of Rural Development, unitedly with the National Remote Sensing Centre (NRSC), Department of house.

- The total wild within the country is five,57,665.51sq km.
- Wasteland is outlined not as desertified land, however land that not used for agriculture, industrial use or as forest land. as an example, it may use grasslands that ar employed by communities for grazing.
- Findings a discount within the wild space was ascertained within the classes of land with dense scrub, boggy land, sandy areas, and degraded pastures.
- The wastelands have undergone a positive modification within the states of Rajasthan, Bihar, Uttar Pradesh, Andhra Pradesh, Mizoram, Madhya Pradesh, Jammu & geographic region, and province.
- The majority of wastelands are became classes of croplands, plantation and industrial areas.
- Steps taken The Supreme Court within the Godhvarman case post 1996 ordered for conveyance beneath orbit of the Forest Conservation Act 1980 those forests that fall into the wordbook which means of ‘forests’ no matter the legal class.
- They had additionally schooled the surroundings Ministry to clarify the definition and also the classes, as well as that ar deemed forests
- The MoEF in June had signed a joint communication with the Ministry of social group Affairs for the correct implementation of the Forest Rights Act, 2006 to make sure the grant and protection of rights of social group individuals within the country.

Topic 29. ANTIVIRAL DRUG

Importance for Prelims: Science and Technology

The researchers have analysed infectious agent proteins across twenty seven coronavirus species and thousands of samples from Covid-19 patients, distinctive extremely preserved sequences that might build the simplest drug targets.

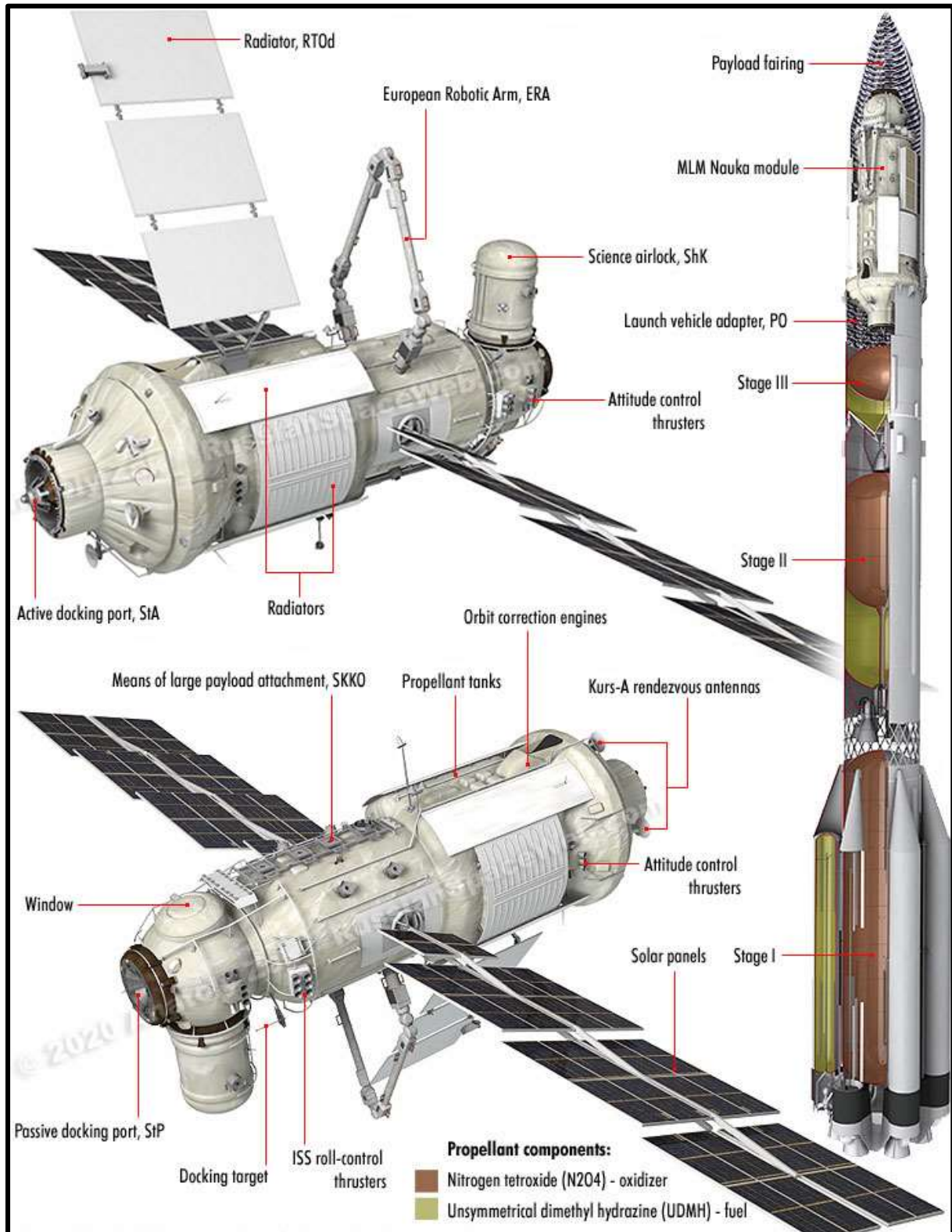
- Drugs typically bind within “pockets” on proteins that hold the drug snugly, inflicting it to interfere with the protein’s operate. Scientists will determine potential drug-binding pockets from the 3D structures of infectious agent proteins.
- The team used a laptop rule to spot drug-binding pockets within the 3D structures of fifteen SARS-CoV-2 proteins.
- The researchers then found corresponding proteins in twenty seven coronavirus species and compared their sequences within the drug-binding pockets.
- The 2 most preserved “druggable” sites concerned proteins (called nsp13 and nsp12 respectively) that ar concerned in infectious agent ribonucleic acid replication and transcription.
- medication Antiviral drug, associate degreey agent that's utilized in the treatment of an communicable disease caused by a scourge. Virus and Host cell Viruses carries with it supermolecule (either polymer or RNA) and a macromolecule as a result of viruses don't have the enzymes that ar required to manufacture cellular elements, they're obligate parasites, which implies they have to enter a cell for replication to occur.
- The supermolecule of the virus instructs the host cell to supply infectious agent elements, that ends up in associate degreee infectious virus.
- In some cases, as in herpes infections, the infectious agent supermolecule could stay within the host cell while not inflicting replication of the virus

and harm to the host (viral latency).

- In different cases, the assembly of virus by the host cell could cause the death of the cell.
- A major downside in treating some infectious agent diseases is that latent viruses will become activated.
- Many factors account for the issue in developing antiviral agents.
- The structure of every virus differs, associate degree specific medical care is commonly unsuccessful attributable to periodic changes within the substance proteins of the virus (antigenic proteins provoke an immunologic response within the host).
- The want for a number cell to support the multiplication of the virus makes treatment tough as a result of the agent should be ready to inhibit the virus while not seriously moving the host cells.
- Viruses will change their macromolecule pockets so medicine now not work. however thusme drug-binding pockets ar so essential to the protein's operate that they can't be mutated, and these sequences ar typically preserved over time within the same virus, and in connected viruses associate degree medicine should act at one in every of 5 basic steps within the infectious agent replication cycle so as to inhibit the virus: attachment and penetration of the virus into the host cell, Uncoating of virus (e.g., removal of the macromolecule surface and unharness of the infectious agent polymer or RNA), Synthesis of recent infectious agent elements by the host cell as directed by the virus polymer, Assembly of the elements into new virus, and unharness of the virus from the host cell.

Topic 30. NAUKA

Importance for Prelims: Science and Technology



Russia's space agency Roscosmos are attaching a considerably larger module

referred to as Nauka, which is able to function the country's main center on the orbiter.

- Pirs, a Russian module on the International orbiter (ISS) used as a moorage port for orbiter and as a door for cosmonauts to travel out on spacewalks, was on weekday detached from the 22-year-old floating laboratory. Pirs, which means “pier” in Russian, a significantly smaller structure that was solely used as a moorage port for Russian orbiter and allowed for cosmonauts to enter or leave the ISS for spacewalks.
- Pirs was force off from the ISS employing a Progress MS-7P cargo vessel, that had remained docked to the module since Gregorian calendar month.
- It are replaced by , Russia's area agency Roscosmos's larger module referred to as Nauka,
- It can function the country's main center on the orbiter
- It may be a pathbreaking cooperative effort between 5 collaborating area agencies: independent agency (United States), Roscosmos (Russia), JAXA (Japan), ESA (Europe) and CSA (Canada).
- Nauka Nauka, was launched from the Baikonur Cosmodrome in Kazakh on Gregorian calendar month twenty one employing a nucleon rocket, is regular to be integrated with the ISS on Th.
- Nauka, that is forty two feet long and weighs twenty tonnes, was speculated to be launched as early as 2007, as per the ISS's original set up.
- Nauka which means “science” in Russian is that the biggest artificial satellite Russia has launched to this point, and can primarily function a probe facility it's conjointly delivery to the ISS another O generator, a spare bed, another bathroom, and a robotic shipment crane designed by the ecu area Agency (ESA).

- This new module was sent into orbit employing a nucleon rocket the foremost powerful in Russia's area inventory on Gregorian calendar month twenty one, and can take eight days to succeed in the ISS. On the ISS, Nauka are hooked up to the crucial Zvezda module, that provides all of the area station's life support systems and is the structural and useful centre of the Russian Orbital section (ROS) (the Russian a part of the mammoth floating laboratory).

Topic 31. THE NATIONAL COMMISSION FOR DENOTIFIED NOMADIC AND SEMI-NOMADIC TRIBES

Importance for Prelims: National Organisation

The Ministry, vide Gazette Notification dated twelve.02.2014 had grooved National Commission for De-Notified and unsettled and Semi-Nomadic Tribes (NCDNT) for the amount of three years from the date of Notification.

- ‘De-notified Tribes’ the term ‘De-notified Tribes’ stands for all those communities that were once notified below the Criminal Tribes Acts, implemented by nation dominion between 1871 and 1947.
- These Acts were repealed by the freelance Indian Government in 1952, and these communities were “De-Notified”.
- A few of those communities that were listed as de-notified were conjointly unsettled.
- Terms like nomads and semi-nomads ar applied to ‘social teams UN agency undertook a reasonably frequent, typically seasonal physical movement as port of their support strategy within the recent past.
- The term semi-nomad is usually accustomed describe those sections of nomads whose period, distance and frequency of movement is relatively but others.
- The distinction between nomads and semi-nomads don't involve distinguishable ethnic classes or social teams, it rather describes the degree of quality practiced by them.
- It has been calculable that South Asia has the world’s largest unsettled population. In India, roughly ten per cent of the population is Denotified and unsettled. While the quantity of Denotified Tribes is concerning a hundred and fifty, the population of unsettled Tribes consists of concerning five hundred completely different communities.
- While the Denotified Tribes have virtually settled in varied States of the

country, the unsettled Communities still be mostly unsettled in pursuit of their ancient professions.

- The Renke Commission (2008) was earlier commissioned to spot and list the DNT communities.
- The National Commission for Denotified, unsettled and Semi-Nomadic Tribes
- The National Commission for Denotified, unsettled and Semi-Nomadic Tribes (NCDNSNT) could be a national commission set below the Ministry of Social Justice and authorization, Government of Republic of India, to review numerous biological process aspects of denotified and unsettled or semi-nomadic tribes in Republic of India.
- The Commission was 1st was created on twenty two Nov 2003 and reconstituted on sixteen March 2005.
- The Government had ingrained National Commission for Denotified, unsettled and Semi-Nomadic Tribes (NCDNT) to arrange a State-wise list of castes happiness to Denotified and unsettled Tribes and to recommend applicable measures in respect of Denotified and unsettled Tribes that will be undertaken by the Central Government or the authorities. The Idate Commission submitted its report in January 2018.
- It mentioned that a permanent commission for Denotified, Semi unsettled, and unsettled Tribes ought to have a outstanding community leader as its chairman, and a senior Union government administrative official, AN social scientist, and a social scientist as members.
- A Development and Welfare Board for De-Notified, unsettled and Semi-Nomadic Communities (DWBDNCs) has been ingrained and a Committee has conjointly been created by the NITI Aayog to finish the method of identification of the De-Notified, unsettled and Semi-Nomadic Communities (DNCs).

- The survey work of identification of DNT Communities and inserting them in a very class of SC/ST/OBC is additionally below method in NITI Ayog and social science Survey of Republic of India (AnSI). Schemes
- The Ministry of Social Justice and management is implementing the subsequent schemes for the welfare of the DNTs.
- Dr.Ambedkar Pre-Matric and Post-Matric Scholarship for DNTs: This Centrally Sponsored theme was launched w.e.f. 2014-15 for the welfare of these DNT students United Nations agency aren't lined below SC, ST or OBC.
- The financial gain ceiling for eligibility is Rs. 2.00 100000 each year.
- The theme is enforced through State Governments/UT Administrations.
- The expenditure is shared between the Centre and therefore the States within the magnitude relation of 75:25.
- Nanaji Deshmukh theme of Construction of Hostels for DNT Boys and women.
- This Centrally Sponsored theme launched in 2014-15 is enforced through State Governments/ UT Administrations/ Central Universities. The aim of the theme is to produce hostel facilities to those DNT students; United Nations agency aren't lined below SC, ST or OBC; to change them to pursue pedagogy.
- The financial gain ceiling for eligibility is Rs. 2.00 100000 each year.
- The Central Government provides a most of five hundred seats each year throughout the country.
- The value norm is Rs. 3.00 100000 per seat and Rs. 5000/-per seat for furnishings.
- The expenditure is shared between the Centre and therefore the States within the magnitude relation of 75:25. From the year 2017-18, the theme

“Assistance to Voluntary Organization operating for the Welfare of different Backward categories (OBCs)” has been extended for DNTs and EBCs as “Central Sector theme of help for ability Development of Backward categories (OBCs)/ De-notified, mobile and Semi-Nomadic Tribes (DNTs)/ Economic Backward categories (EBCs)”.

- Scheme for Economic management of DNT Communities (SEED) for welfare of this community having following four components: - to produce coaching job of excellent quality for DNT candidates to change them to look in competitive examinations.
- To offer insurance to them.
- To facilitate resource initiative at community level; and to produce monetary help for construction of homes for members of those nine.

Topic 32. SPECIAL MENTION

Importance for Prelims: Polity

Leader of the Opposition Mallikarjun Kharge reiterated the demand that below Rule 267, different House businesses ought to be suspended to own a discussion on the Pegasus issue within the presence of the Prime Minister or the house Minister.

- Special Mention In Rajya Sabha: Special Mention is one more device through that a member will raise a problem of public importance within the House.
- It is predicated on the foundations of Procedure and Conduct of Business in Rajya Sabha. before July 2000, the procedure for creating a Special Mention wasn't enclosed within the Rules of Procedure and Conduct of Business in Rajya Sabha; it absolutely was supported the follow obtained within the House.
- A matter that can not be raised throughout question hour, half-an-hour discussion, short period discussion or below adjournment motion, vocation attention notice or below any rule of the House will be raised below the special mention within the Rajya Sabha.
- The choice of a Special Mention to be created by a member within the home is entirely the right of the Chairman. below traditional circumstances, just one Special Mention is allowed to be created by a member throughout every week unless the Chairman directs otherwise.
- Number of Special Mention matters per sitting: As regards the amount of Special Mentions per sitting, it's been provided in rule 180D(2) that it's to not exceed seven.
- however the Chairman considering the state of business, importance of the topic and different relevant matters whereas allowing Special Mentions at a sitting of the House might allow over the prescribed

variety.

- Supplementary don't seem to be allowed on special mentions.
- When Special Mentions area unit created within the House, as a general follow, the Ministers, World Health Organization could also be gift within the House, don't react instantly to the matters thus mentioned by members.
- If the involved Minister is gift and desires to reply, he's allowable to try to to thus however it's optional for him to reply

Topic 33. DHOLAVIRA IN GUJARAT ON UNESCO WORLD

HERITAGE LIST

Importance for Prelims: Culture



Dholavira, the anthropology website of a Harappan-era town, received the UNESCO world heritage website tag. Dholavira became the fourth website from Gujarat and fortieth from Bharat to form the list, it's the primary website of the traditional Indus natural depression Civilisation (IVC) in Bharat to induce the tag. Gujarat currently has four world heritage sites — Dholavira, Champaner close to Pavagadh, blue blood ki Vav in Patan and therefore the Historic town of Ahmedabad

- Dholavira is found in tannin district of Gujarat. it had been discovered in 1968 by anthropologist Jagat Pati Joshi.
- After Mohen-jo-Daro, Ganweriwala and Harappa in Islamic Republic of Pakistan and Rakhigarhi in Haryana of Bharat, Dholavira is that the fifth

largest metropolis of Indus natural depression Civilization (IVC).

- Dholavira was an advertisement and producing hub for concerning one,500 years before its decline. Dholavira was a hub for copper scientific discipline.
- It is believed that traders of Dholavira went to supply copper ore from contemporary Rajasthan and Asian country and UAE and export finished merchandise. it had been additionally a hub of producing jewelry fabricated from shells and semi-precious stones, like calcedony and additionally went to export timber.
- From around 2000 before Christ, Dholavira entered a section of severe aridity thanks to global climate change and rivers like Saraswati extraction.
- Because of a drought-like state of affairs, individuals started migrating toward the river natural depression or towards south Gujarat and more on the far side in Maharashtra.
- Distinct features: The water management system, multi-layered defensive mechanisms, in depth use of stone in construction and special burial structures ar a number of the distinctive aspects of Dholavira.
- Dholavira homes a cascading series of water reservoirs believed to be a part of a water harvest system.
- Dholavira incorporates a fortified bastion, a middle city and a lower city with walls fabricated from arenaceous rock or rock rather than mud bricks as in alternative Harappan sites.
- Dholavira had a massive outer fortification running on all four sides. The ceremony design that includes mound — subfigure structures just like the Buddhist Stupas— ar a novel feature of Dholavira
- There ar remains of 2 exterior stadiums
- A vary of artefacts of copper, shell, stone, and jewelry fabricated from

terracotta and ivory had been found at the location.

- Rise and fall of Dholavira Remains of a copper plant indicate of Harappans, United Nations agency lived in Dholavira, knew scientific discipline.
- It is believed that traders of Dholavira went to supply copper ore from present-day Rajasthan and Asian nation and UAE and export finished product.
- It was additionally a hub producing of producing } jewelry manufactured from shells and semi-precious stones, like calcedony and accustomed export timber.
- The beads peculiar to the Harappan skill are found within the royal graves of geographic region, indicating Dholavira accustomed trade with the Mesopotamians.
- Its decline additionally coincided with the collapse of geographic region, indicating the combination of economies.
- Harappans, WHO were maritime folks, lost a large market, moving the native mining, manufacturing, selling and export businesses once geographic region fell.
- From 2000 B.C., Dholavira entered a section of severe aridity thanks to global climate change and rivers like Saraswati evaporation.
- Because of a drought-like state of affairs, folks started migrating toward the Ganges depression or towards south Gujarat and additional on the far side in geographical area.
- The nice Rann of tannin, that surrounds the Khadir Island on that Dholavira is found, accustomed be passable, however the ocean receded bit by bit and also the Rann became a mudflat.
- Other Harappan sites in Gujarat Before Dholavira was excavated, Lothal, in Saragwala village on the bank of Sabarmati in Dholka taluka of

Ahmedabad district, was the foremost distinguished website of IVC in Gujarat.

- It was excavated between 1955 and 1960 and was discovered to be a vital port town of the traditional civilisation, with structures manufactured from mud bricks.
- From a cemetery in Lothal, twenty one human skeletons were found. Foundries for creating utensil were additionally discovered.
- Ornaments manufactured from semi-precious stones, gold etc.
- were additionally found from the positioning.
- Rangpur on the bank of Bhadar watercourse in Surendranagar district was the primary Harappan website within the state to be excavated.
- Rojdi in Rajkot district, Prabhas close to Veraval in Gir Somnath district, Lakhabaval in Jamnagar, and Deshalpar in Bhuj taluka of tannin square measure among alternative Harappan sites within the state.
- Conservation The Dholavira website has remained free from encroachment in historical periods similarly as within the era
- The website was found free from any reasonably encroachment, a rarity in Republic of India. In its unleash, United Nations agency termed Dholavira in concert of the foremost exceptional and healthy urban settlements in South Asia geological dating from the third to mid-2nd millennium BCE (Before Common Era).
- Dholavira, a village with a population of around a pair of,000, is that the nearest human settlement nowadays.
- Near the traditional town may be a fossil park wherever wood fossils square measure preserved United Nations agency World Heritage Sites in {india|India|Republic of Republic of India|Bharat|Asian country|Asian nation} aside from India, Italy, Spain, Germany, China and France have forty or a lot of World Heritage Sites. UNESCO's announcement comes

simply days once another website, Kakatiya Rudreshwara (Ramappa) in Telangana, was admitted to the globe Heritage List.

Topic 34. PLAN FOR ADJOURNMENT MOTION

Importance for Prelims: Polity

The Opposition leaders square measure reaching to move adjournment motion within the Lok Sabha to debate the Pegasus issue.

- Adjournment motion: Adjournment motion will be introduced solely within the Lok Sabha.
- The primary object of Associate in Nursing adjournment motion is to draw the eye of the House to a recent matter of pressing public importance having serious consequences and with respect to that a motion or a resolution with correct notice are too late.
- The adjournment motion is a unprecedented procedure that, if admitted, ends up in setting aside the conventional business of the House for discussing a precise matter of pressing public importance.
- The speaker is that the final authority to grant consent to Associate in Nursing adjournment motion.
- The right to maneuver a motion for Associate in Nursing adjournment of the business of the home is subject to the subsequent restrictions Raise a matter that is definite, factual, pressing and of public importance.
- Not cowl quite one matter.
- Be restricted to a particular matter of recent prevalence.
- Not raise a matter of privilege.
- Not revive discussion on a matter that has been mentioned within the same session.
- Not influence any matter that's underneath judgement of court.
- Not raise any question that may be raised on a definite motion.

Topic 35. SOUTH KOREA'S ARTILLERY INTERCEPTION SYSTEM

Importance for Prelims: International Relations

South Korea has approved plans to develop AN artillery interception system, just like Israel's Iron Dome.

- This new weaponry are designed and designed specifically to thwart attacks by rockets and long-range missiles launched by DPRK.
- The South Korean government had proclaimed in June that it might be outlay some \$2.5 billion on analysis and development of this new system, with a target to deploy it by 2035.
- North Korean Peninsula deploys around one,000 artillery items on the Military bounds that divides the Choson.

How can South Korea's Iron Dome dissent from Israel's?

- There ar operational variations between the 2 systems furthermore, with the foremost vital being that South Korea's system are designed to intercept long-range artillery items.
- But additional significantly, South Korea and Israel face totally different|completely different} security threats that need different responses.
- While Israel contends with terrorist organization, that is primarily a militant cluster, South Korea had to manage DPRK, a nation with its own intensive military capabilities.

Topic 36. INDIA WILL EXPLORE INDIGENOUS DEPOSITS OF PHOSPHATIC ROCK

Importance for Prelims: Geography

Union Minister of Chemicals and Fertilizers knowledgeable Parliament that Bharat can explore autochthonic deposits of phosphatic rock, a step towards changing into AatmaNirbhar in chemical production.

- Phosphorus rocks or phosphate rocks are unprocessed ores. Phosphate rock deposits is substance (formed from sediment deposited by water or air) or igneous (having solid from volcanic rock or magma).
- However, the simplest means to get phosphorus is by manner of mining and concentrating phosphate rock from the phosphate deposits.
- Used in fertilizers Worldwide, over eighty fifth of the phosphate rock well-mined is employed to manufacture phosphate fertilizers.
- All common fertilizers have associate “N-P-K” rating. Phosphorus is that the “P” in fertilizers, that is crucial for plants.

Where is it found?

- Phosphate rock deposits is substance or igneous and are well-mined from substance deposits fashioned by the deposition of phosphate-rich materials in marine environments.
- Large substance deposits are settled in China, Middle East, Northern continent, and also the U.S.. Meanwhile, the igneous deposits are well-mined in Brazil, Canada, Finland, Russia, African country, and Zimbabwe.
- Phosphorus in {india|India|Republic of Bharat|Bharat|Asian country|Asian nation} Phosphate rocks are majorly made solely from 2 States in India, specifically Rajasthan and Madhya Pradesh.
- Currently, there exists thirty 100000 MT of phosphorite deposits within the country, that necessary steps are being taken by the govt. to increase its

production.

- These deposits are offered in Rajasthan, central a part of ground Bharat, Hirapur (Madhya Pradesh), Lalitpur (Uttar Pradesh), Mussoorie syncline, and Cuddapah basin (Andhra Pradesh).

Topic 37. INTELLECTUAL PROPERTY

Importance for Prelims: Science and Technology



In news: The spat among the Pune-based Kirloskar brothers has intense with Kirloskar Brothers (KBL), LED by Sanjay Kirloskar, accusative Kirloskar Industries (KIL), LED by his brother Atul Kirloskar, of exploitation the belongings (IP), trademark, copyright and material a part of KBL's brand.

About belongings Rights (IPR):

- Intellectual property rights (IPR) ar the rights given to persons over the creations of their minds: inventions, literary and inventive works, and symbols, names and pictures employed in commerce.
- They sometimes provide the creator associate privilege over the utilization of his/her creation for a precise amount of your time.
- Intellectual property could be a class of property that has intangible creations of the human intellect.

Laws & Rules that govern belongings Rights (IPR):

- The importance of IPR was 1st recognized within the Paris Convention

for the Protection of commercial Property (1883) & capital of Switzerland Convention for the Protection of Literary & creative Works (1886).

- Both square measure administered by the globe property Organization (WIPO).
- IPRs are printed in Article twenty seven of the Universal Declaration of Human Rights. global organization governs IPR through Trade-Related Aspects of the property Rights (TRIPS).

Trade-Related Aspects of the belongings Rights (TRIPS):

- TRIPS is a global agreement on belongings rights.
- The Agreement covers most sorts of belongings together with patents, copyright, trademarks, geographical indications, industrial styles, trade secrets, & exclusionary rights over new plant varieties.
- It came into force in 1995 & is binding on all members of the globe Trade Organization (WTO).

Types of Intellectual Property: Patents:

- A patent is associate right granted for associate invention, that could be a new product or method that meets conditions of Novelty Non-obviousness Industrial use Patents in Asian country area unit ruled by “The patent Act 1970” that was amended in 2005 to form it compliant with journeys.

Patent (Amendment) Rules, 2020:

- The new rules have amended the format of a speech act statement that patentees & licensees square measure needed to annually meet up with the Patent Office.
- The format contains revealing the extent to that they need commercially worked or created the proprietary inventions offered to the general public within the country.

- Industrial styles associate degree industrial style constitutes the decorative or aesthetic side of associate degree article/object.
- A style might include three-dimensional options, like the form or surface of a commentary, or of two-dimensional options, like patterns, lines or colours.
- Industrial styles in Republic of India square measure ruled by “The styles Act 2000”. Copyright Copyright may be a legal term accustomed describe the rights that creators have over their literary & creative works.
- Works lined by copyright vary from books, music, paintings, sculpture & films, to laptop programs, databases, advertisements, maps & technical drawings.
- Copyrights in Republic of India square measure ruled by “The Copyright Act, 1957”.
- Trademarks A trademark may be a sign capable of identifying the products or services of 1 enterprise from those of alternative enterprises.
- Trademarks in Republic of India square measure ruled by Trade Marks Act 1999 that was amended in 2010.

Geographical Indications:

- A GI tag may be a legal recognition given primarily to associate degree agricultural, natural or a factory-made product (handicrafts & industrial goods) originating from a particular geographical territory.
- GI tag conveys associate degree assurance of quality & distinctiveness of a product, that is actually as a result of the place of its origin.
- Geographical Indicators in Republic of India square measure ruled by “The Geographical Indications of products (Registration & Protection) Act, 1999”.

Trade secrets:

- Trade secrets square measure scientific discipline rights on hint which

can be sold or commissioned.

- There is not any specific law.

Plant selection Protection:

- It refers to the protection granted for plant varieties.
- These rights square measure given to the farmers & breeders to encourage the event of recent sorts of plants.
- Plant selection protection in Republic of India is ruled by “The Protection of Plant Varieties & Farmers’ Rights (PPV&FR) Act, 2001”.

Topic 38. GOVT. SAYS 78 FOREIGN COMPANIES REGISTERED IN INDIA LAST FISCAL YEAR

Importance for Prelims: Economy

As several as seventy eight foreign firms were registered within the country beneath the company's law within the last fiscal year, consistent with official information. In 2019-20, a complete of 124 foreign firms were registered in Republic of India. The count was at 118 in 2018-19.

- firms Act 2013 {the firms|the businesses} Act 2013 regulates the formation and functioning of companies or companies in Republic of India.
- The initial firms Act when independence was passed in 1956, that ruled business entities within the country.
- By Section a hundred thirty five of the 2013 Act, Republic of India became the primary country to create company social responsibility (CSR) defrayment obligatory by law.
- Currently, the Ministry of company Affairs is administering the subsequent Central government Acts:
 1. Companies Act 2013
 2. firms Act 1956 (some provisions of this Act still apply)
 3. Competition Act 2002
 4. economic condition & Bankruptcy Code, 2016
 5. comptroller Act 1949

What is a remote company?

- Foreign Company is outlined below Section two (42) of the businesses Act, 2013 (the Act) as any company 2013 (the Act) as any company or body company incorporated outside Asian nation that
- (a) encompasses a place of business in Asian nation by itself or through associate degree agent, physically or thorough electronic mode and

- (b) Conducts any endeavor in Asian nation in the other manner. below Section 248, an organization will be affected aloof from the official records subject to bound conditions.
- These embody instances wherever the Registrar of firms encompasses a cheap cause to believe that firms don't seem to be carrying on any business or operation for 2 straight off preceding monetary years and haven't created any application inside such amount for getting dormant company standing.
- During the amount from 2018 to Gregorian calendar month 2021, a complete of two, 38,223 firms were affected aloof from the official records below Section 248 of the Act.
- 'Shell Company' there's no definition of the term 'shell company' below the businesses Act, 2013 it unremarkably refers to an organization while not active business operation or important assets, that in some cases square measure used for ill-gotten purpose like evasion, concealing, obscuring possession, benami properties etc.
- A shell entity could be a corporation while not active business operations or important assets.
- These sorts of companies don't seem to be all essentially ill-gotten, however they're typically used illegitimately, like to disguise business possession from enforcement or the general public.

Topic 39. LAND RIGHTS

Importance for Prelims: Polity

To a question on whether or not it's a indisputable fact that the govt. has recognised the land rights as human rights, Singh aforesaid that as per inputs provided by the house ministry, there's no document in custody that shows that land rights has been recognised as human rights.

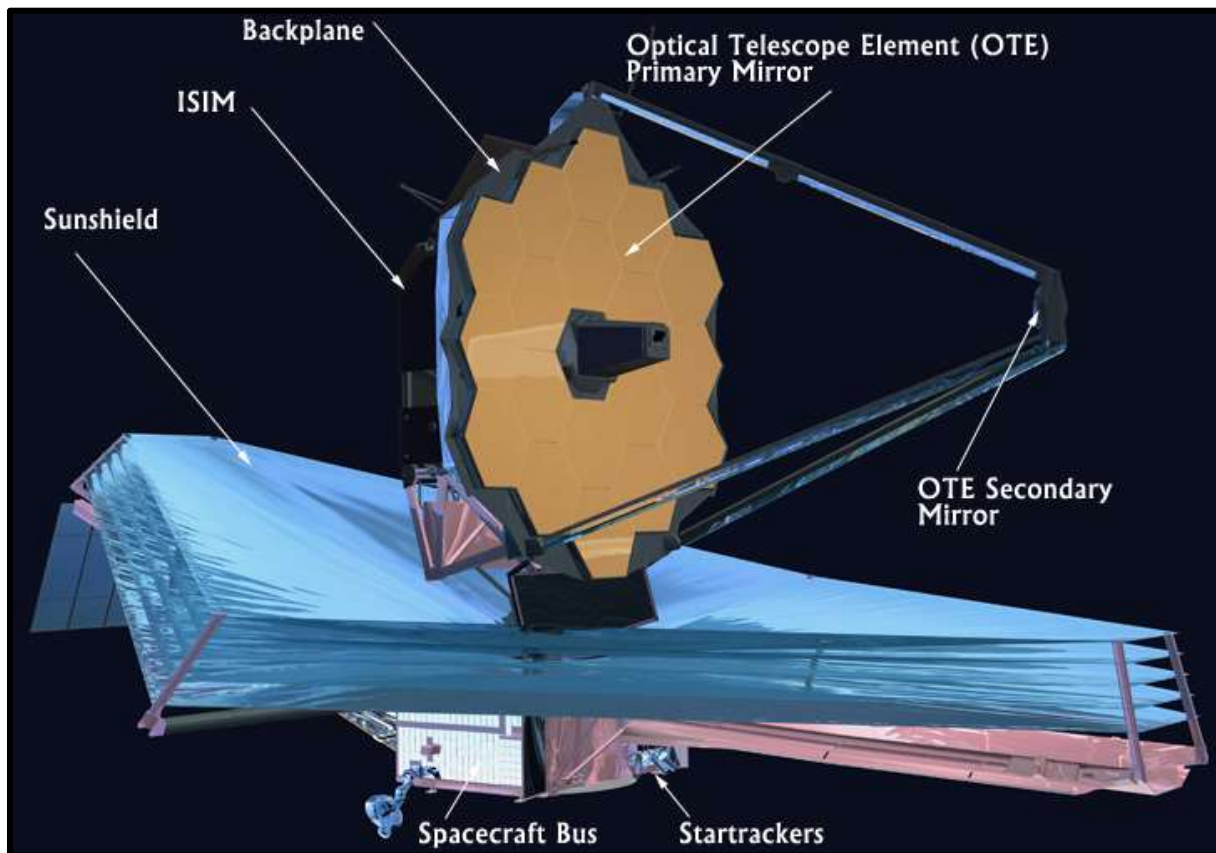
- There is not any document in custody that shows that land rights has been recognised as human rights.
- As per Section 2(d) of the Protection of Human Rights Act, 1993, 'human rights' suggests that the rights with reference to life, liberty, equality and dignity of the individual warranted by the Constitution of Asian nation|Bharat|Asian country|Asian nation} or embodied within the international covenants and enforceable by courts in India.
- Article seventeen of the Universal Declaration of Human Rights (UDHR) states:
 1. everybody has the correct to have property alone also as in association with others.
 2. nobody shall be haphazardly bereft of his property.
- Supreme Courts read the Supreme Court has recently command that a citizen's right to have property could be a right and therefore the state cannot take possession of it while not following due procedure and authority of law.
- The state cannot trespass into the property of a subject then claim possession of the land within the name of 'adverse possession'.
- Grabbing personal land then claiming it as its own makes the state associate intruder.
- In a state, right to property could be a right.
- A state can't be permissible to require the plea of adverse possession, that

permits a persona non grata i.e. an individual guilty of a *actus reus*, or maybe a criminal offense, to achieve legal title over such property for over twelve years.

- The State can't be permissible to good its title over the land by invoking the belief of adverse possession to grab the property of its own voters.
- Right to Property: 'Right to personal property was antecedently a basic right' below Article thirty one of the Constitution.
- Property ceased to be a basic right with the forty fourth Constitution modification in 1978.
- Nevertheless, Article 300A needed the state to follow due procedure and authority of law to deprive an individual of his or her property.
- The right to property is currently thought-about to be not solely a constitutional or statutory right, however conjointly somebody's right.

Topic 40. JAMES WEBB SPACE TELESCOPE (JWST)

Importance for Prelims: Science and Technology



NASA is ready to launch the big infrared James Webb house Telescope (JWST) touted because the “premier observatory” of the approaching decade later this year.

- JWST can study numerous phases within the history of the universe, from the formation of star systems to the evolution of our own system.
- The James Webb house Telescope (sometimes referred to as JWST or Webb) is associate degree orbiting infrared observatory which will complement and extend the discoveries of the Edwin Hubble house Telescope, with longer wavelength coverage and greatly improved sensitivity.
- Webb are the premier house observatory for astronomers worldwide, extending the tantalizing discoveries of the Edwin Hubble house

Telescope.

- The James Webb house Telescope (JWST or “Webb”) may be a joint NASA–ESA–CSA house telescope that's planned to succeed the Edwin Hubble house Telescope as NASA’s flagship uranology mission
- The JWST can offer improved infrared resolution and sensitivity over Edwin Hubble, and can alter a broad vary of investigations across the fields of natural philosophy and cosmology, together with perceptive a number of the foremost distant events and objects within the universe, like the formation of the primary galaxies.
- Unlike the Edwin Hubble telescope, that observes within the close to ultraviolet, visible, and close to infrared (0.1 to one μm) spectra, the JWST can observe in a very lower frequency vary, from long-wavelength light through mid-infrared (0.6 to 28.3 μm), which is able to enable it to watch high redshift objects that square measure too recent and too distant for Edwin Hubble to watch
- The telescope should be unbroken terribly cold so as to watch within the infrared while not interference, thus it'll be deployed in house close to the Sun–Earth L2 Lagrange purpose,
- The JWST is being developed by National Aeronautics and Space Administration, the ecu house Agency and therefore the Canadian house Agency.
- The {nasa|National Aeronautics and house Administration|NASA|independent agency} Robert Hutchings Goddard Space Flight Center is managing the event effort, and therefore the house Telescope Science Institute can operate Webb when launch it's named for James E.
- Webb, WHO was the administrator of {nasa|National Aeronautics associate degreed Space Administration|NASA|independent agency}

from 1961 to 1968 and contend an integral role within the Apollo program.

Topic 41. WORLD ECONOMIC OUTLOOK

Importance for Prelims: Reports and Indices

The International Monetary Fund (IMF) has cut India's value growth estimate for FY22 by three hundred basis points to nine.5 per cent from its Gregorian calendar month projection of twelve.5 per cent

- World Economic Outlook WEO may be a survey by the United Nations agency that's sometimes revealed double a year within the months of Gregorian calendar month and Gregorian calendar month.
- It analyses and predicts world economic developments throughout the close to and medium term.
- In response to the growing demand for additional frequent forecast updates, the WEO Update is revealed in January and Gregorian calendar month between the 2 main WEO publications free sometimes in Gregorian calendar month and Gregorian calendar month.
- International money United Nations agency is a company operating to foster world financial cooperation, secure monetary stability, facilitate international trade, promote high employment and property economic process, and scale back economic condition round the world.
- Created in 1945, the United Nations agency is ruled by and responsible to the 189 countries that frame its near-global membership. Bharat Joined on Gregorian calendar month twenty seven, 1945.
- The IMF's primary purpose is to confirm the steadiness of the international financial system—the system of exchange rates and international payments that allows countries (and their citizens) to interact with one another.
- The Fund's mandate was updated in 2012 to incorporate all economic science and monetary sector problems that bear on world stability.
- Projections Growth prospects in Bharat are downgraded following the

severe second Covid wave throughout March-May and expected slow recovery in confidence from that occurrence It mentioned that countries insulation in vaccination, like Bharat and Indonesia, can suffer the foremost among G-20 economies it's above Moody's forecast of nine.3 per cent and shut to Crisil's vary of eight.2- 9.8 per cent Growth prospects for advanced economies this year have improved by zero.5 decimal point, however this can be offset specifically by a downward revision for rising market and developing economies, driven by a major downgrade for rising Asia

- It project world growth of four.9 per cent, up from our previous forecast of four.4 per cent.
- According to the fund's estimate, the pandemic has reduced per capita incomes in advanced economies by a pair of.8 per cent, relative to pre-pandemic trends over 2020-22.

Topic 42. PROJECT BOLD

Importance for Prelims: Government Schemes

Khadi and Village Industries Commission (KVIC) on Tuesday planted one thousand bamboo saplings at Tanot village in Jaisalmer, unitedly with the Border force (BSF).

- Project daring was launched on four Gregorian calendar month from a social group village Nichla Mandwa in Udaipur district in Rajasthan with plantation of 5000 saplings of special bamboo species over twenty five bigha of arid land Bamboo plantation, as a part of KVIC's Project daring (Bamboo Oasis on Lands in Drought) aims at serving the combined national goals of reducing geological process and providing keep and multi-disciplinary rural trade support to the native population.
- In subsequent three years, one thousand bamboo plants can multiply and manufacture a minimum of four,000 bamboo logs advisement regarding one hundred MT of bamboo.
- At the present market rate of Rs 5000 per ton, this bamboo manufacture can generate associate degree financial gain of nearly Rs five hundred thousand when 3 years and afterward once a year, therefore supporting the native economy.
- Bamboo is used for creating agarbatti sticks, furniture, handicraft, musical instruments and paper pulp whereas the bamboo waste is wide utilized in creating charcoal and fuel block.
- Bamboos are identified for protective water and thence helpful in arid and drought-prone regions

Topic 43. THE KEN BETWA PROJECT NEEDS TO BE REDESIGNED

Importance for Prelims: Geography



Chief Ministers of Madhya Pradesh and province signed a note of agreement to implement the Ken Betwa Link Project (KBLP).

- The Prime Minister was a co-signatory to the Ken Betwa Project in Madhya Pradesh.
- The 2 states signed a triangular agreement with the Centre on World Water Day (22nd March) to finally implement this formidable project.
- National Perspective set up for interlacing of rivers: The National watercourse Linking Project (NRLP) formally called the National Perspective set up, envisages the transfer of water from water 'surplus' basins wherever there's flooding, to water 'deficit' basins wherever there's drought/scarcity, through inter-basin water transfer comes.
- The program for interlacing of major rivers includes thirty links to share accessible waters equitably between completely different basins and

states.

- The National Perspective set up for Inter-Linking of rivers has 2 components: range of mountains Component: fourteen Links dry land Component: sixteen links The project is being managed by India's National exploitation Agency (NWDA), beneath its Ministry of Water Resources. what's the Ken Betwa Link Project? The Ken-Betwa Link Project is that the initial project beneath the National Perspective set up for interlacing of rivers.
- It is known beneath the dry land element of the National watercourse Linking Project.
- Under this project, water from the Ken watercourse are going to be transferred to the Betwa watercourse. each these watercourses square measure tributaries of river Yamuna.
- The Ken-Betwa Link Project has 2 phases. beneath Phase-I, one in every of the elements — Daudhan dam complicated and its appurtenances like Low Level Tunnel, High Level Tunnel, Ken-Betwa link canal and Power homes — are going to be completed.
- In the Phase-II, 3 elements — Lower Orr dam, Bina complicated project and Kotha barrage — are going to be created.

Which region can get the advantages of the KBLP?

- The Ken-Betwa Link Project lies in Bundelkhand, a drought-prone region, that spreads across thirteen districts of Uttar Pradesh and Madhya Pradesh.
- It can give annual irrigation of ten.62 lakh ha, water provide to concerning sixty two large integer folks and additionally generate 103 MW of hydropower.
- The project are of vast profit to the water-starved region of Bundelkhand, particularly within the districts of Panna, Tikamgarh, Chhatarpur, Sagar,

Damoh, Datia, Vidisha, Shivpuri and Raisen of Madhya Pradesh and Banda, Mahoba, Jhansi and Lalitpur of Uttar Pradesh.

Will the project have an effect on the Panna tiger reserve?

- Out of the vi,017 HA of forest space returning beneath sinking of Daudhan dam of Ken Betwa Link Project, 4,206 HA of space lies inside the core tiger surround of Panna Tiger Reserve.

Are there previous samples of river-linking in India?

- In the past, many stream linking comes are concerned. as an example, beneath the Periyar Project, transfer of water from Periyar basin to Vaigai basin was envisaged. The linking of Godavari and avatar was completed in 2015. Similarly, alternative comes like Parambikulam Aliyar, Kurnool Cudappah Canal, Telugu Ganga Project, and Ravi-Beas-Sutlej were undertaken. that area unit the clearances needed for a river-linking project? usually, 4-5 sorts of clearances area unit needed for the interlacing of stream comes. These are: Techno-economic (given by the Central Water Commission) Forest Clearance and settingal clearance (Ministry of Environment & Forests) transportation and Rehabilitation (R&R) arrange of social group Population (Ministry of social group Affairs) life clearance (Central authorised Committee). Ken and Betwa Rivers Ken and Betwa rivers originate in MP and area unit the tributaries of Yamuna. Ken meets with Yamuna in Banda district of UP and with Betwa in Hamirpur district of UP. Rajghat, Paricha and Matatila dams area unit over Betwa stream. Ken stream passes through Panna tiger reserve.

Topic 44. EARTH OVERSHOOT DAY' HAS SHIFTED BACK TO JULY 29 SAYS WWF

Importance for Prelims: Environment



In news- the world Overshoot day fell on Gregorian calendar month twenty nine, this year. it's a similar date that the globe reached overshoot in 2019. In 2020 it had been discovered on August twenty two.

About Earth Overshoot Day:

- It marks the date once humanity's demand for ecological resources and services in an exceedingly given year exceeds what Earth will regenerate in this year. antecedently it had been called Ecological Debt Day.
- For the remainder of the year, society operates in ecological overshoot by drawing down native resource stocks and accumulating carbonic acid gas within the atmosphere.
- The 1st Earth Overshoot Day was Dec nineteen, 1987.

- It is hosted and calculated by international Footprint Network, a global analysis organization.
- It calculates the quantity of days of that year that Earth's bio capability suffices to produce for humanity's Ecological Footprint.
- **Global Footprint Network:** it's associate freelance think factory originally primarily based within the u.s., Belgium and Switzerland.
- It was based in 2003 as a charitable not-for-profit organization in every of these 3 countries.
- The organization is headquartered in metropolis, California.
- It develops and promotes tools for advancing property, as well as the ecological footprint and bio capability.
- Its goal is to make a future wherever all humans will live well, at intervals the suggests that of 1 planet Earth.
- The Network brings along over seventy partner organizations.

Topic 45. OPTIONS AND FUTURES

Importance for Prelims: Economy

Derivative traders on the National securities market were taken suddenly on weekday, once keen futures for August ending crashed five per cent or over 531 points to a coffee of fifteen,256 from its gap level of fifteen,787

- Options and futures area unit similar commercialism merchandise that give investors with the prospect to form cash and hedge current investments.
- Options associate choice provides the customer the proper, however not the duty, to shop for (or sell) associate quality at a selected worth at any time throughout the lifetime of the contract.
- They tend to be fairly advanced, choices contracts tend to be risky.
- Both decision and place choices usually go together with identical degree of risk. once associate capitalist buys a option, the sole monetary liability is that the price of the premium at the time the contract is purchased.
- Options area unit supported the worth of associate underlying security like a stock. As noted higher than, associate choices contract provides associate capitalist the chance, however not the duty, to shop for or sell the quality at a selected worth whereas the contract continues to be in result.
- Investors don't ought to obtain or sell the quality if they decide to not do therefore.
- They area unit most well-liked by Futures A derivative instrument provides the customer the duty to buy a selected quality, and therefore the vendor to sell and deliver that quality at a selected future date unless the holder's position is closed before expiration.
- Options is also risky, however futures area unit riskier for the individual capitalist.

- Futures contracts involve most liability to each the customer and therefore the vendor
- A derivative instrument needs a customer to buy shares—and a vendor to sell them— on a selected future date, unless the holder's position is closed before the expiration date.
- Futures contracts tend to be for big amounts of cash.
- The obligation to sell or shop a given worth makes futures riskier by their nature.
- They area unit most well-liked by speculators.

Topic 46. DEPOSIT INSURANCE AND CREDIT GUARANTEE CORPORATION (AMENDMENT) BILL

Importance for Prelims: Economy

The Union cupboard, on Wed, approved the Deposit Insurance and Credit Guarantee Corporation (Amendment) Bill.

- DICGC Deposit insurance may be a protection protect deposit holders in a very bank once the bank fails and doesn't have cash to pay its depositors.
- This insurance is provided by Deposit Insurance and Credit Guarantee Corporation (DICGC) that may be a completely owned subsidiary of the run.
- DICGC insures all bank deposits, like savings, fixed, current and revenant deposit for up to the limit of Rs five hundred thousand per bank.
- DICGC covers depositors of all business banks and foreign banks operational in Asian nation, state, central and concrete co-operative banks, native space banks and regional rural banks provided the bank has bought the duvet from DICGC.
- The DICGC doesn't embody the subsequent forms of deposits:
 1. Deposits of foreign governments.
 2. Deposits of central/state governments.
 3. Inter-bank deposits.
 4. Deposits of the state development banks with the state co-operative bank.
 5. Any quantity due on account of any deposit received outside Asian nation.
 6. Any quantity specifically exempted by the DICGC with previous approval of run.
- Deposit Insurance and Credit Guarantee Corporation (Amendment) Bill.
- This can modify depositor's access their deposits up to the total

prescribed beneath deposit insurance – ₹5 hundred thousand – though the bank is placed beneath moratorium.

- Depositors underneath the new mechanism, which implies they will withdraw up to ₹5 100000 against ₹1 100000 once the Bill is passed in Parliament.
- As of currently, depositors have to be compelled to await liquidation or passage of resolution to induce the advantage of deposit insurance.
- It ordinarily it takes 8-10 years when complete liquidation to induce cash underneath insurance.
- Now though there's a moratorium, among ninety days, the method will certainly be completed and, consequently, offer relief to depositors.
- Within the primary forty five days of the bank being anesthetise moratorium, the DICGC would collect all data regarding deposit accounts.
- In ensuing forty five days, it'll review the data and repay depositors among a most of ninety days
- The government raised the deposit insurance to ₹5 100000 from ₹1 100000. the govt has additionally permissible raising the deposit premium by twenty per cent instantly, and most by fifty per cent.
- The premium is paid by banks to the DICGC. it's been determined that ninety eight.3 per cent in terms of the quantity of deposit accounts, and 50.9 per cent in terms of deposit worth, of insurance are going to be lined.
- Globally, these numbers ar eighty and 20-30 per cent, severally
- The amendments to the Deposit Insurance and Credit Guarantee Corporation Act (DICGC) aims to contour the provisions, in order that if a bank is briefly unable to fulfil its obligations, the depositors will get simple and time-bound access to their deposits to the extent of the deposit insurance cowl.

- The planned law is prospective, and not retrospective, however it'll cowl banks already underneath moratorium and people that might return underneath moratorium.
- Banks presently pay a minimum of ten paise on each Rs one hundred price deposits to the DICGC as premium for the insurance cowl, that is currently being raised to a minimum of twelve paise.

What is a moratorium?

- The RBI, the regulative body overseeing the country's economic system, has the ability to raise the govt to own a moratorium placed on a bank's operations for a such amount of your time.
- Under such a moratorium, depositors won't be able to withdraw funds at can. run batted in steps in if it judges that a bank's web value is quick eating away and it's going to reach a state wherever it's going to not be able to repay its depositors. once a bank's assets (mainly the worth of loans given to borrowers) decline below the amount of liabilities (deposits), it's at risk of failing to satisfy its obligations to depositors.
- Run on Banks A moratorium primarily helps stop what's referred to as a 'run' on a bank, by clamping down on speedy outflow of funds by cautious depositors, UN agency look for to require their cash get into concern of the bank's close at hand collapse.
- Temporarily, it will have an effect on depositors.
- A moratorium offers each the regulator and therefore the acquirer time to initial scrutinise of the particular money scenario at the troubled bank.
- It permits for a practical estimation of assets and liabilities, and for the regulator to facilitate capital infusion, ought to it realize that necessary.

Can safety of funds be assured by RBI?

- It depends on whether or not the troubled bank or the regulator is ready to seek out acquirers or investors to avoid wasting the day.

- In the case of affirmative Bank and Hindu deity Vilas Bank, the run batted in was able to usher in investors UN agency infused adequate funds.
- In the case of geographic region and geographical region Co-operative Bank, the moratorium — despite being bit by bit relaxed for depositors — continues to be operative, over a year once it had been obligatory, and there's still no sign of a vendee.

Topic 47. LIMITED LIABILITY PARTNERSHIPS (LLPS)

Importance for Prelims: Economy

In a booster dose for the start-up system within the country, the Union cupboard, on weekday, approved amendments to the liability Partnership Act 2008.

- liability partnerships (LLPs) restricted liability partnerships (LLPs) allow a partnership structure wherever every partner's liabilities area unit restricted to the quantity they place into the business.
- Having business partners suggests that spreading the chance, investment individual skills and experience, and establishing a division of labour.
- Limited liability means if the partnership fails, then creditors cannot trail a partner's personal assets or financial gain.
- The liability Partnership Act modification bill This modification liability Partnerships (LLPs) on associate degree equal footing vis-a-vis giant corporates, that relish the convenience of doing business thanks to the government's recent efforts to decriminalize many provisions of the businesses Act.
- Existing law As several as twelve offences within the exiting LLP law area unit projected to be decriminalised through the newest set of amendments.
- Once the projected changes to LLP Act 2008 area unit established, the amount of compoundable offences beneath the legislation can come back down from twenty one to seven, the full range of penal provisions can get reduced to twenty two from twenty four, and there'll be solely 3 non-compoundable offences Most of the sections that had guiltiness in its approach have gotten decriminalised beneath corporations Act.
- For LLPs, the same treatment needs to tend as LLPs are getting additional well-liked among start-ups, and plenty of of them have to be compelled to

face things of guiltiness owing to those sections within the LLP Act

- This is that the 1st time the govt is proposing amendments to the LLP Act since its enactment in 2008 and also the legislation turning into effective in 2009
- The changes area unit being projected supported the recommendations of the MCA appointed Company Law Committee, that went into the functioning of the LLP Act 2008.
- As a part of the projected amendments to the LLP Act 2008, the govt is additionally introducing a replacement definition of tiny LLPs.
- It can facilitate easy doing business, the Bill has decriminalised numerous offences and distended the scope of the definition of ‘small companies’ to encourage numerous tiny and medium businesses to line up LLPs.
- This can facilitate tiny and medium entrepreneurs get unionised and even have the good thing about liability.
- The projected definition for tiny LLPs enclosed conditions like that the contribution of partners doesn't exceed Rs twenty five large integer associate degreeed an annual turnover not prodigious Rs40 large integer.

Topic 48. OZONE LEVELS EXCEEDING PERMITTED LEVELS: STUDY

Importance for Prelims: Geography



A Centre for Science and surroundings study on gas levels in Delhi-NCR.

- Contrary to the notion that gas is preponderantly a summer development, the study found gas levels extraordinary the allowable levels even throughout winter in DelhiNCR.
- The study notes that despite the internment, a lot of days and locations witnessed a better and longer length of gas spells.
- **Ozone:** whereas stratospheric gas protects living things from ultraviolet from the sun, ground-level gas is taken into account a waste given the adverse health issues it provides rise to.
- **gas formation:** Ozone could be a secondary waste. Tropospheric, or ground-level gas, isn't emitted directly into the air, however is formed by chemical reactions between oxides of element (NO_x) and volatile organic compounds (VOC) within the presence of daylight (photochemical

reaction).

- Emissions from cars, power plants, refineries, chemical plants, and alternative sources are the key sources of Nox and VOC.
- Ozone is presumably to succeed in unhealthy levels on hot sunny days in urban environments.
- **Harmful effects:** gas could be an extremely reactive gas and once inhaled it will injure the lungs. comparatively low amounts of gas will cause hurting, coughing, shortness of breath and, throat irritation.
- It may worsen chronic metabolism diseases like respiratory disorder further as compromise the power of the body to fight metabolism infections.
- Elevated exposure to gas will have an effect on sensitive vegetation and ecosystems.
- In specific, gas will hurt sensitive vegetation throughout the season.

Topic 49. 6TH MEETING OF THE BRICS COUNTER TERRORISM WORKING GROUP

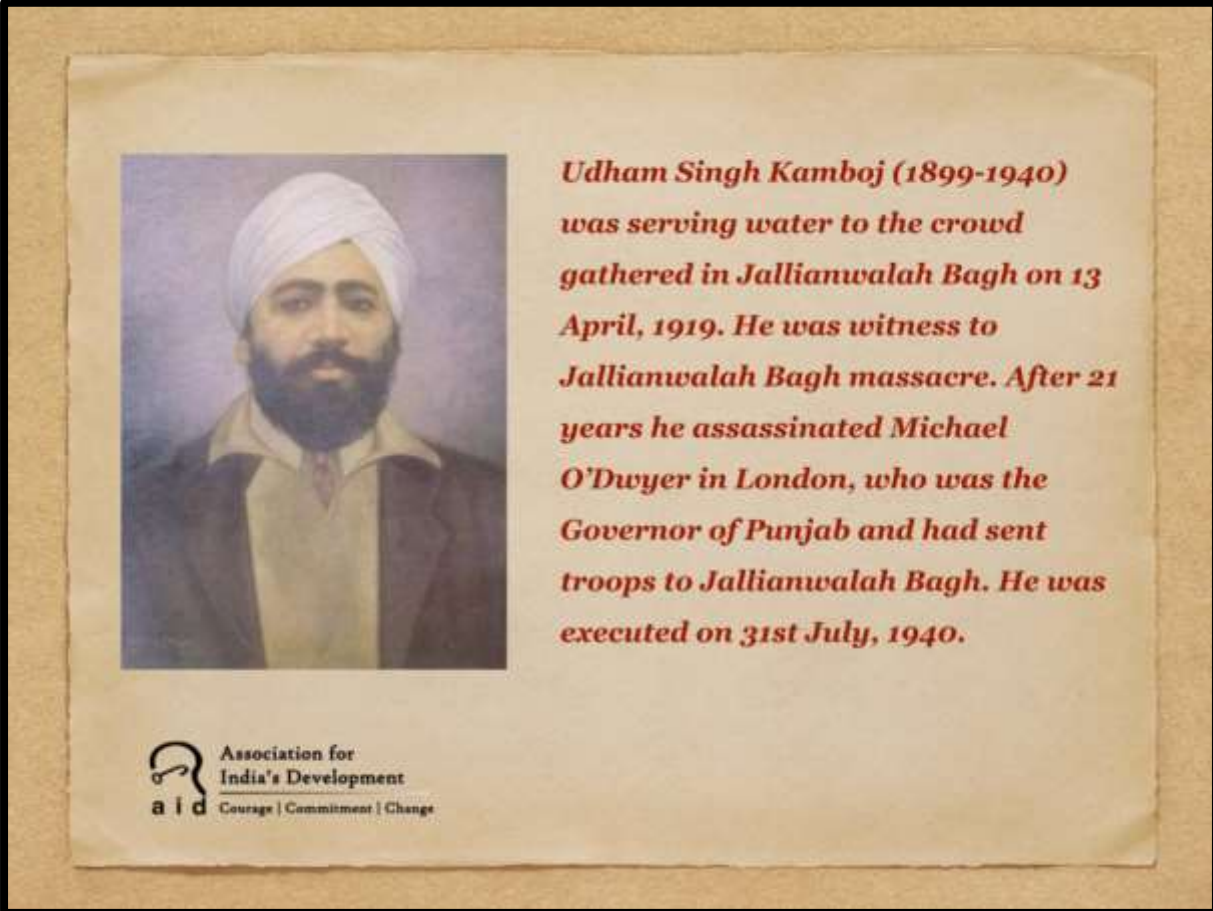
Importance for Prelims: International Relations

The sixth meeting of the BRICS Counter terrorist act unit was control just about on twenty eighth and twenty ninth of July below the position of Republic of India.

- The main outcome of the unit meeting was the culmination of the BRICS Counter terrorist act Action set up containing specific measures to implement the BRICS Counter terrorist act Strategy adopted by BRICS Leaders in 2020.
- The action set up can strengthen counter-terror cooperation among the BRICS member states.
- The set up is one in every of the key deliverables throughout India's Chairship of BRICS and can be adopted at the meeting of BRICS National Security Advisors scheduled next month.

Topic 50. SHAHEED UDHAM SINGH

Importance for Prelims: History



Udham Singh Kamboj (1899-1940) was serving water to the crowd gathered in Jallianwala Bagh on 13 April, 1919. He was witness to Jallianwala Bagh massacre. After 21 years he assassinated Michael O'Dwyer in London, who was the Governor of Punjab and had sent troops to Jallianwala Bagh. He was executed on 31st July, 1940.

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Udham Singh was born in Sunam in Punjab's Sangrur district in 1899.

- He was associate degree Indian revolutionary and got related to the Ghadar Party whereas within the North American nation.
- He is best acknowledged for his assassination in London of archangel O'Dwyer, the previous elected official of geographical area.
- The assassination was exhausted revenge for the Jallianwala Bagh massacre in Amritsar in 1919.
- Troops beneath the command of commissioned military officer Reginald skilled worker had opened fireplace on the group, killing many hundred.
- Udham Singh was given the title of Shaheed-i-Azam (the nice martyr).

Topic 51. FISCAL DEFICIT

Importance for Prelims: Economy

The Finance Ministry on Fri reported a business deficit of eighteen.2 per cent of the Budget Estimate (BE) for the April-June quarter, all-time low since 2010-11

- The government describes business deficit of India|Bharat|Asian country|Asian nation} as “the more than total disbursements from the Consolidated Fund of India, excluding compensation of the debt, over total receipts into the Fund (excluding the debt receipts) throughout a money year”.
- The government that contains a business deficit is defrayal on the far side its suggests that.
- It is calculated as a proportion of Gross Domestic Product (GDP), or just as total cash spent in more than financial gain.
- In either case, the financial gain figure includes solely taxes and alternative revenues and excludes cash borrowed to form up the insufficiency.
- The government has set a business deficit target of ₹15.06- large integer large integer (6.8 per cent of GDP) for FY22.
- Achieving this may rely upon 2 things: Actual withdrawal return and expenditure on doable information business Deficit = Total expenditure of the govt (capital and revenue expenditure) – Total financial gain of the govt (Revenue receipts + recovery of loans + alternative receipts).
- It is completely different from revenue deficit that is merely associated with revenue expenditure and revenue receipts of the govt.
- The government meets the business deficit by borrowing cash.
- In a way, the full borrowing necessities of the govt in a very yr is adequate the business deficit therein year.

- A high business deficit also can be sensible for the economy if the cash spent goes into the creation of productive assets like highways, roads, ports and airports that boost economic process and end in job creation.
- The business Responsibility and Budget Management Act, 2003 provides that the Centre ought to take applicable measures to limit the business deficit up to three of the gross domestic product by thirty first March, 2021.

Topic 52. CPI

Importance for Prelims: Economy



The all India Consumer Price Index for Industrial employees (CPI-IW) for June 2021 increased by 0.11 points and stood at 217. It increased by 0.91 per cent than May 2021 and 0.61 per cent in comparison to June 2020.

- CPI is a live of retail inflation (WPI live wholesale inflation) in economy.
- it's calculated on monthly basis.
- There is additionally Associate in Nursing annual report with a 1-month lag. Consumer price level or CPI is that the live of changes within the price index of a basket of goods and services bought by households.
- CPI is a numerical estimation calculated by measuring the rates of a sample of representative objects the costs of that area unit gathered sporadically.
- The CPI captures changes in price index at the buyer level.
- Changes in costs at the producer level area unit half-track by the

Wholesale price level (WPI). CPI will capture the amendment within the costs of services that the WPI cannot.

- **Various Indices of CPI are:** CPI – Industrial employees (CPI -IW): It tries to live the alterations over a fundamental quantity on the costs of a set basket of products and services utilized by Industrial employees.
- **CPI – Agricultural Labourers (CPI -AL):** This index measures the amendment within the worth of trade goods basket consumed by the agricultural labourers.
- It is that this went to revise minimum wages for agricultural labour in numerous States.
- **CPI – Rural Labourers:** This index measures the amendment within the worth of trade goods basket consumed by the agricultural labourers.
- The higher than indices area unit revealed monthly by Labour Bureau beneath the Ministry of Labour and Employment for all Republic of India in addition as States and Union Territories.
- Since the higher than 3 indices coated solely a phase of the population and not the nation, we have a tendency to Designed 3 additional indices of CPI.
- **CPI – Rural:** This index measures the amendment within the worth of trade goods basket consumed by the agricultural population
CPI – Urban: This index measures the amendment within the worth of trade goods basket consumed by urban population
- **CPI – Combined:** it's computed by combining CPI Rural and CPI Urban Index
- The base year for the higher than 3 indices is 2011-12 and area unit revealed monthly by the National applied mathematics workplace (NSO), Ministry of Statistics and Programme Implementation.

Why CPI is important?

- Tracks inflation in economy.
- RBI and different estimating agencies study CPI thus on perceive the worth amendment of assorted commodities and keep a tab on inflation.
- It additionally offers a concept of value of living.