

WEEKLY CURRENT AFFAIRS MAGAZINE for



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Success is born of action...

Topic 1: INTER PARLIAMENTARY UNION

Importance for Prelims: International Organizations



The Indian economy below the leadership of Prime Minister Narendra Modi is ‘amazing’, aforementioned Duarte Pacheco, President of Inter-Parliamentary Union (IPU).

- IPU is international inter-parliamentary establishment. It was established in 1889 and was the primary permanent forum for political tripartite negotiations.
- It is **headquartered in Geneva, Switzerland.**
- Its initial objective was arbitration of conflicts.
- It played a vital role in fitting Permanent Court of Arbitration within the Hague.
- Over time, its mission has evolved towards promotion of democracy and lay to rest parliamentary dialogue.
- It has worked for institution of establishments at inter-governmental level, as well as global organization.
- Initially, IPU was for individual parliamentarians, however has since remodeled into coalition of parliaments of sovereign states.
- As of 2020, the national parliaments of 179 countries square measure members of the IPU, whereas thirteen regional parliamentary assemblies

square measure associate members.

The IPU has permanent observer standing at UNGA.

Topic 2. NATIONAL MISSION ON HIMALAYAN STUDIES

Importance for Prelims: Environment



No nod for brand new comes in range region says atmosphere minister.

- The National Mission on range Studies (NMHS), a Central Sector Grant-in-aid theme, therefore, targets to produce a lot of required focus, in addressing the key problems concerning conservation and property management of natural resources in Indian range Region (IHR).
- The final goal is to boost quality of life and maintain scheme health of the region to confirm long-term ecological security to the country.
- As the Mission specifically targets the Indian range Region (IHR), the jurisdiction of NMHS includes ten range states absolutely (i.e., Arunachal Pradesh, Himachal Pradesh, Jammu & geographic region, Manipur, Meghalaya, Mizoram, Nagaland, Sikkim, Tripura and Uttarakhand) and 2 states part (i.e., hill districts of state and West Bengal). NMHS envisages to figure towards a group of coupled and complementary goals to:
 - Foster conservation and property management of natural resources;
 - Enhance supplementary and/or various livelihoods and overall economic eudaemonia of the region; management and forestall pollution within the region; Foster increased/augmented human and institutional capacities and also the data and policy atmosphere within the region; and
 - Strengthen, greening, and fostering development of climate-resilient core

infrastructure and basic services assets.

Topic 3. DUST STORM

Importance for Prelims: Geography



Beijing witnesses biggest windstorm in decade.

- Sand and dirt storms square measure common meteoric hazards in arid and dry regions.
- They square measure sometimes caused by thunderstorms – or robust pressure gradients related to cyclones – that increase wind speed over a large space.
- Sand and dirt particles square measure distinguished by their grain size. Storms carrying larger particles square measure referred to as Sand Storm whereas those carrying smaller square measure referred to as mud Storms.
- Marginal dry lands square measure more and more a supply of major mud storms. These areas have fragile, finely balanced ecosystems. Their degradation, referred to as geologic process, makes the soil less resilient to wind throughout prolonged drought.

Formation of mud Storms

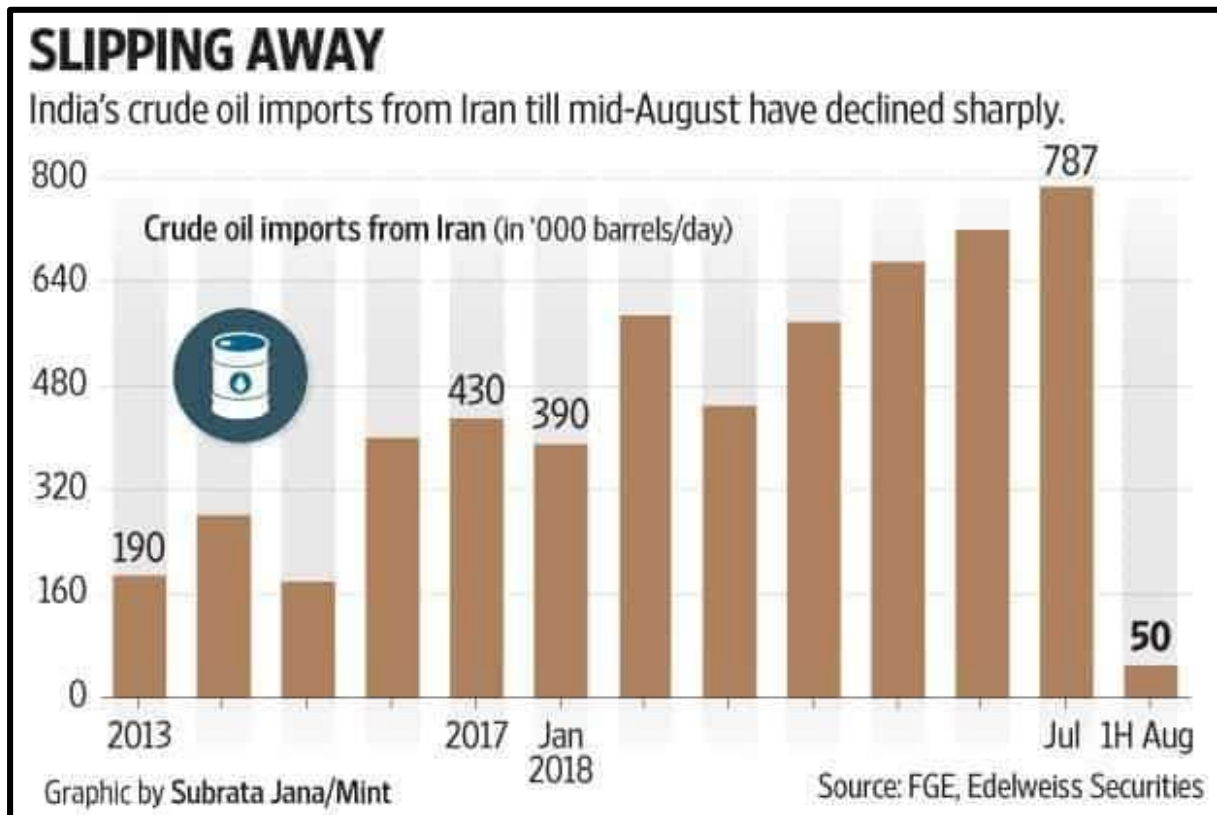
- Sand and dirt storms sometimes occur once robust winds raise massive amounts of sand and dirt from blank, dry soils into the atmosphere.
- Once discharged from the surface, mud particles square measure raised to higher levels of the layer by turbulent intermixture and convective

updrafts.

- They square measure transported by winds for lengths of your time, betting on their size and environmental condition, before being force go into reverse to the surface once more.
- As larger particles sediment a lot of quickly than smaller ones, there's a shift toward smaller particle sizes throughout transport.
- Areas that have higher wet witness electric storm and areas comparatively void of wet suffer from mud storms.

Topic 4. OIL SUPPLIES TO INDIA

Importance for Prelims: Economy/ International Relations



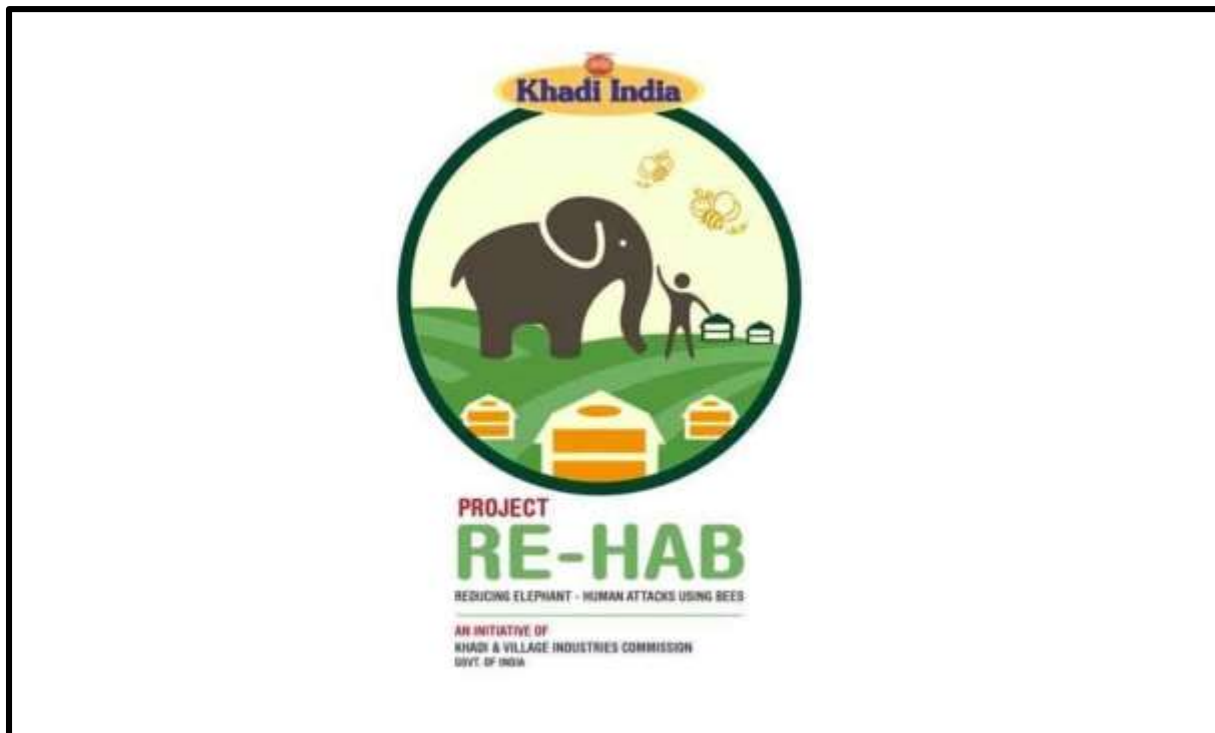
The us overtook Kingdom of Saudi Arabia as India's second biggest oil provider.

- India's imports from the us – the world's prime producer – rose forty eighth to a record 545,300 barrels per day (bpd) in Gregorian calendar month from the previous month, accounting for 14 July of overall imports last month, the information obtained by Reuters showed.
- In distinction, Gregorian calendar month imports from Kingdom of Saudi Arabia fell by forty second from the previous month to a decade-low of 445,200 bpd, the information showed.
- Saudi peninsula, that has systematically been one in every of India's prime 2 suppliers, slipped to No. four for initial time since 2006
- Iraq continued to be the highest oil vender to Asian country despite a twenty third decline in purchases to a five-month low of 867,500 bpd, the

information showed.

Topic 5. PROJECT RE – HAB

Importance for Prelims: Environment



A run launched in Kodagu entails putting in bee boxes on the bound of the forest and therefore the villages with the assumption that the elephants won't venture anyplace getting ready to the bees and so avoid transgressing into human landscape.

- An initiative of the cloth and Village Industries Commission (KVIC), Project REHAB (Reducing Elephant-Human Attacks mistreatment Bees) intends to make “bee fences” to thwart elephant attacks in human habitations mistreatment honeybees.
- The run was launched at four locations around Chelur village in Kodagu district by KVIC. These spots ar placed on the bound of the Nagarahole parkland and Tiger Reserve, glorious conflict zone.
- Project RE-HAB could be a sub-mission of the KVIC’s National Honey Mission.

- Between 2015 and 2020, nearly 2,500 folks have lost their lives in elephant attacks across Asian country, of that a hundred and seventy human fatalities are reportable in Karnataka alone, says the KVIC.

Topic 6. BARALACHA PASS

Importance for Prelims: Geography



For the primary time ever, the Border Roads Organisation (BRO) has started work on reopening the crucial Baralacha Pass in Himachal Pradesh abundant before schedule to revive property to Leh in Ladakh.

- Bara-lacha la conjointly referred to as Bara-lacha Pass may be a high pass in Zanskar vary, connecting Lahaul district in Himachal Pradesh to Leh district in Ladakh, set on the Leh–Manali road.
- The pass conjointly acts as a water-divide between the Hindu deity stream and therefore the Yunam stream.
- The Hindu deity stream, a tributary of the Chenab stream, originates from Hindu deity the Taal lake, that is set many of kilometers from the pass towards Manali.

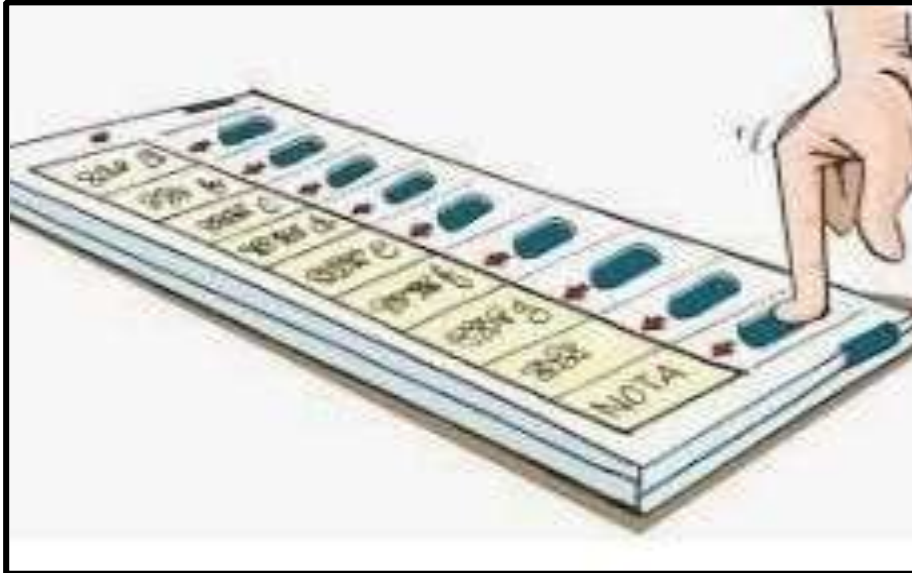
Border Roads Organisation

- BRO was formed and raised in 1960 by Pandit statesman for coordinative the speedy development of a network of roads within the North and therefore the North jap border regions of the country.
- It works below the executive management of the Ministry of Defence.

- It has wide-ranging into an oversized spectrum of construction and development works comprising airfields, building comes, defence works and tunne ling and has endeared itself to the folks.

Topic 7 NOTA

Importance for Prelims: Polity



The Supreme Court asked the Centre and therefore the committee of Bharat to retort to a plea that contemporary elections ought to be conducted in constituencies wherever the very best range of votes polled square measure NOTA (None Of The Above).

- The petition aforementioned candidates ‘rejected’ by voters shouldn't be fielded once more within the contemporary polls.
- Chief Justice of Bharat Sharad A. Bobde expressed doubts at first concerning the feasibility of the petition to arm the voters with the “right to reject” and nudge political parties to gift voters with a stronger alternative of candidates to choose from.
- Chief Justice Bobde aforementioned if voters unbroken rejecting candidates, Parliament/Assembly seats would still stay vacant, poignant legislative functioning.
- But the petition argued that “if voters square measure given the ability to reject, political parties can lookout to field worthy candidates within the

1st place.”

None of the higher than (NOTA)

- Supreme Court, within the PUCL v Union of Bharat (2013) directed the ECI to introduce NOTA in direct elections to permit voters to register their protest if none of the candidates is suitable to them.
- NOTA has solely symbolic price during a direct election. in spite of NOTA numbers, candidate polling most votes is elective but, it's a step towards encouraging political parties to field candidates with integrity.

Topic 8. KATHAKALI

Importance for Prelims: Culture



Guru Chemancheri Kunhiraman Nair, a recipient of Padma Shri, died here on weekday at the age of 104. He was a seasoned Kathakali actor.

Kathakali (Kerala)

- Chakiarkoothu, Koodiyattam, Krishnattam and Ramanattam square measure few of the ritual liberal arts of Kerala that have had an on the spot influence on Kathakali in its kind and technique.
- Kathakali may be a mix of dance, music and acting and dramatizes stories, that square measure principally custom-made from the Indian epics.
- Heavy make-up and beautiful costumes (elaborate masks, Brobdingnagian skirts and large headdresses) square measure used.
- The dancers enact the roles (kings, gods, demons etc.) of the stories with explicit make-up and costume, the vocalists narrate the legend and also the percussionists play the musical instruments.
- Different facial colors indicate completely different mental stages &

character, e.g. inexperienced –nobility, black – wicked, red patches – combining royalty & evil.

- Hand gestures, facial expressions and eye movements square measure necessary.
- Weight of the body is on the outer edges of the feet that square measure slightly bent and sinusoidal. Ramankutty Nair and Kalamandalam Gopi were the distinguished artists.

Topic 9 NATIONAL CADET CORPS

Importance for Prelims: Current Events



In a landmark judgment, the Kerala tribunal on Monday directed the Centre and therefore the National trainee Corps (NCC) to amend the incoming criteria below Section half-dozen of the National trainee Corps Act and embody transgender persons for incoming.

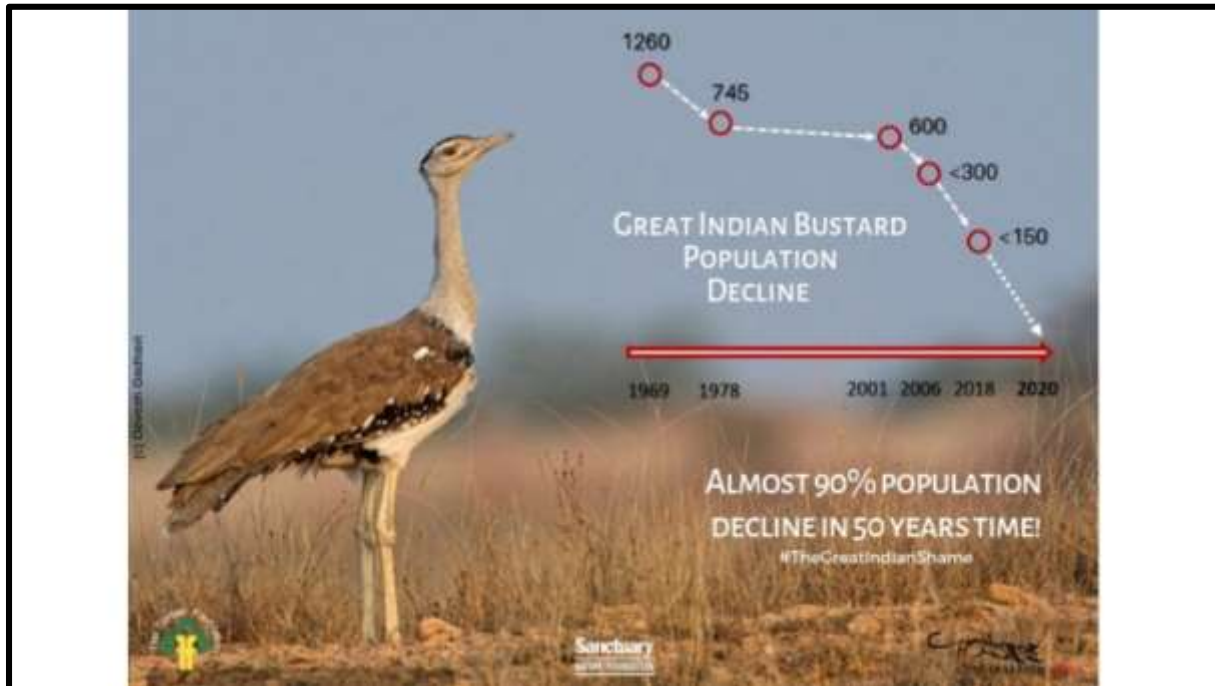
- The NCC was shaped in 1948 (**on the advice of H. N. Kunzru Committee-1946**), and has its roots to British era clad youth entities like University Corps or University Officer coaching Corps.
- Currently it's a strength of around fourteen large integer cadets from Army, Navy and Air Force wings. The NCC falls below the view of the Ministry of Defence and is headed by a Director General of three-star military rating.
- It enrolls cadets at highschool and tier and conjointly awards certificates on completion of assorted phases.
- The NCC cadets receive basic preparation at varied levels and even have tutorial program basics associated with soldiers and their functioning.
- Various coaching camps, journey activities and {military

coaching|training|preparation|grooming } camps ar a very important side of NCC training. **Significance**

- NCC cadets have compete a very important role over the years in relief efforts throughout varied emergency things.
- During the continuing pandemic, over 60,000 NCC cadets are deployed for voluntary relief add coordination with district and state authorities across the country.

Topic 10.GREAT INDIAN BUSTARD

Importance for Prelims: Environment



The Supreme Court intervened on behalf of the critically vulnerable nice Indian Bustards over the birds falling dead once colliding with power lines running through their dwindling natural habitats in Gujarat and Rajasthan.

- The nice Indian wader is one among the heaviest flying birds within the world.
- Scientific Name: *Ardeotis nigriceps*
- **Habitat:** Dry grasslands and scrublands on the Indian subcontinent; its largest populations ar found within the Indian state of Rajasthan.

Distribution:

- India, effectively the sole home of the bustards, currently harbours but one hundred fifty people in 5 States.
- Today, its population is confined largely to Rajasthan and Gujarat. tiny population conjointly occur in geographic region, Mysore and Andhra Pradesh.

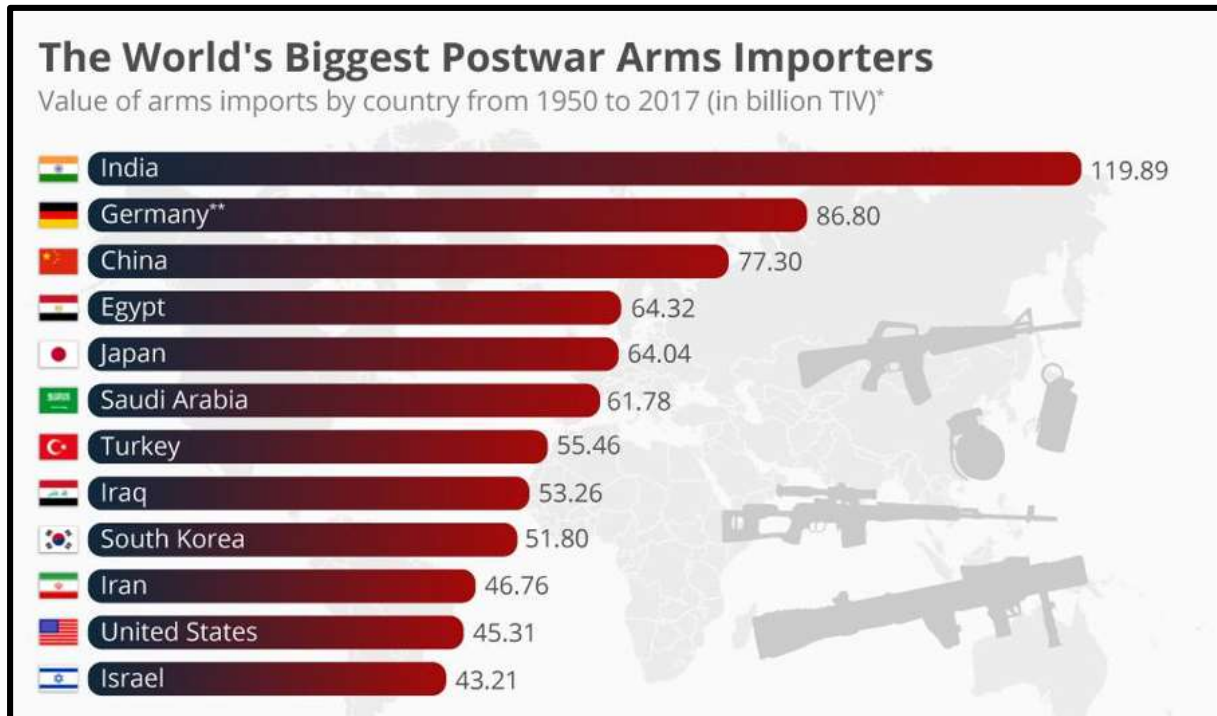
- It is that the State bird of Rajasthan. Protection standing
- Critically vulnerable on the IUCN Red List
- In Appendix I of CITES,
- In Schedule I of the Indian life (Protection) Act, 1972.

Additional info

- A Bench crystal rectifier by judge of Bharat Sharad A. Bobde can examine on a priority basis whether or not overhead power cables will be replaced with underground ones to avoid wasting one among the heaviest flying birds on the world.
- The court found any that an alternate mechanism — to put in flight bird divertors — to guide the birds aloof from the ability lines would be high-ticket.

Topic 11.ARMES IMPORTS

Importance for Prelims: Defence



Arms imports attenuate by thirty third between 2011–15 and 2016–20 whereas Asian country continues to stay the second largest arms businessperson once Kingdom of Saudi Arabia, per a report from Swedish think factory national capital International Peace analysis Institute(SIPRI).

- The overall visit arms imports between 2011–15 and 2016–20 was because of complicated and long procural processes, combined with makes an attempt to scale back its dependence on Russian arms by diversifying its network of arms suppliers.
- Russia was the biggest arms provider in each years. However, Russia's deliveries born by fifty three between the 2 periods and its share of Indian arms imports fell from seventy to forty ninth.
- France and Israel were the second and third largest arms suppliers in 2016–20.

- India's arms imports from France accumulated by 709% whereas those from Israel rose by eighty two.
- The U.S. was the fourth largest provider in 2016–20.
- Combat craft and associated missiles created up quite five hundredth of arms imports.

Topic 13.NATIONAL MONETISATION PIPELINE

Importance for Prelims: Economy



8 ministries list assets for monetisation: from stations to telecommunication towers, pipelines to roads.

National plus validation Pipeline

- In Union Budget 2021, minister Nirmala Sitharaman proclaimed that a national substantiation pipeline are going to be launched, with a dashboard to trace the progress and supply visibility to investors.
- Asset substantiation is that the method of unlocking the worth of investment created publicly assets that haven't yielded acceptable or potential returns up to now.
- The Minister knowledgeable that AN plus validation dashboard also will be created for pursuit the progress and to produce visibility to investors.

Some necessary measures within the direction of substantiation area unit as follows:

- National Highways Authority of Asian country and PGCIL every have sponsored one InvIT that may attract international and domestic institutional investors.
- Five operational roads with AN calculable enterprise price of Rs.5,000 large integer area unit being transferred to the NHA InvIT. Similarly, transmission.
- Railways can legitimise Dedicated Freight passageway assets for operations and maintenance, once authorization.
- The next ton of Airports are going to be monetised for operations and management concession.

Other core infrastructure assets that may be unrolled beneath the plus validation Programme are:

- NHA Operational Toll Roads
- Transmission Assets of PGCIL
- Oil and Gas Pipelines of GAIL, IOCL and HPCL (iv) AAI Airports in Tier II and III cities,
- Other Railway Infrastructure Assets
- reposition Assets of CPSEs like Central Warehousing Corporation and NAFED among others • Sports Stadiums

Topic 14. WORLD AIR QUALITY REPORT

Importance for Prelims: Important Reports

MOST POLLUTED COUNTRIES (ACCOUNTING FOR POPULATION)			
Rank	Country	PM2.5 (micrograms/cu. m)	Population
1	Bangladesh	83.30	166 mn
2	Pakistan	65.81	201 mn
3	Mongolia	62.00	3 mn
4	Afghanistan	58.80	36 mn
5	India	58.08	1,354 mn

22 Of World's thirty Most impure Cities square measure In India: World Air Quality Report, 2020.

- Twenty-two of the world's thirty most impure cities square measure in Republic of India, with city being graded because the most impure capital town globally, a brand new report aforementioned .
- The report shows that Delhi's air quality improved by roughly fifteen per cent from 2019 to 2020
- It aforementioned that despite the development, city graded because the tenth most impure town and also the high impure capital town within the world.
- The report is ready by Swiss organisation, IQAir, within the kind of the 'World Air Quality Report, 2020', that has discharged globally.
- It is to be noted that the globe Air Quality Report is completely different from the **State of world Air Report that is created by the Boston-**

based Health Effects Institute (HEI).

Topic 15. TENTH SCHEDULE

Importance for Prelims: Polity

After being declared as BJP candidate in flux unit Assembly Polls, TMC seeks Swapan Dasgupta's disqualification from RS

- The Tenth Schedule was inserted within the Constitution in 1985 by 52nd modification. It lays down the method by that legislators is also disqualified on grounds of defection by the leader of a general assembly supported a petition by the other member of the House.

Disqualification:

- If a member of a house happiness to a organisation voluntarily provides up the membership of his organisation, or Votes, or doesn't pick out the general assembly, contrary to the directions of his organisation.
- However, if the member has taken previous permission, or is condoned by the party inside fifteen days from such ballot or self-denial, the member shall not be disqualified.
- If associate freelance candidate joins a organisation once the election.
- If a appointed member joins a celebration six months once he becomes a member of the general assembly.

91st modification act of 2003

- The total range of ministers as well as the Prime minister within the central council of ministers shall not exceed 15 August 1945 of the whole strength of the Loksabha / State general assembly. (Article seventy five,164). but in states range of ministers shall not be but twelve.

- A member disqualified beneath defection is additionally disqualified for being a minister in house.
- The member disqualified on the grounds of defection shall even be disqualified for any remunerative political post, workplace whole or partly beneath the govt. .
- The provision relating to one third was conjointly deleted by this modification.

Exceptions beneath the law:

- Legislators could amendment their party while not the chance of disqualification in sure circumstances. The law permits a celebration to merge with or into another party on condition that a minimum of simple fraction of its legislators ar in favour of the merger. In such a state of affairs, neither the members World Health Organization plan to merge, nor those World Health Organization stick with the first party can face disqualification.
- The law ab initio expressed that the choice of the leader isn't subject to review.
- This condition was smitten down by the Supreme Court in Kihoto Hollohan case in 1992, thereby permitting appeals against the Presiding Officer's call within the state supreme court and Supreme Court.

Topic 16.SYNTHETIC MEAT

Importance for Prelims: Science & tech



Microsoft Founder enterpriser has stirred the net all over again, this point together with his discuss artificial meat.

- Cultured meat or artificial meat could be a meat created by in vitro cell culture of animal cells, rather than from slaughtered animals it's a type of **cellular agriculture**.
- Cultured meat is created exploitation several of a similar tissue engineering techniques historically employed in regenerative medication.
- The construct of polite meat was popularized by Jason Matheny within the early 2000s once co-authoring a seminal paper on polite meat production and making New Harvest, the world's 1st noncommercial organization dedicated to supporting in vitro meat analysis. Cellular Agriculture Cellular agriculture focuses on the assembly of agriculture product from cell cultures employing a combination of biotechnology,

tissue engineering, biological science, and artificial biology to make and style new ways of manufacturing proteins, fats, and tissues that may otherwise return from ancient agriculture.

Topic 17.MGNREGA

Importance for Prelims: Government Schemes

There has been no increase in MGNREGA wages in Kerala and Lakshadweep whereas Meghalaya has recorded the best increase of Rs twenty three, from Rs 203 in 2020-21 to Rs 226 2021-22, in keeping with a report within the Indian specific.

- With the exception of Meghalaya, all states and Union Territories have recorded a lower hike in MGNREGA wages, which is able to be effective from Apr one, for 2021-2022 compared with the rise declared for 2020-2021.
- The fund allocation for the 2020-2021 twelvemonth (FY) for the nationalist leader National Rural Employment Guarantee Act (MGNREGA) theme was solely redoubled marginally, from Rs 60,000 large integer to Rs sixty one,500 crore.

About MGNREGA

- MGNREGA is one among the biggest work guarantee programmes within the world.
- It is one among the core of the core theme underneath Government of Republic of India.

Objective:

- The primary objective of the theme is to ensure one hundred days of employment in each twelvemonth to adult members of any rural social unit willing to try to to public work-related unskilled manual work.
- Under the nationalist leader National Rural Employment Guarantee Act, 2005, the Centre decides the state-wise wage rates for unskilled manual employees World Health Organization work underneath the agricultural job guarantee theme.

- The wage rates are fastened as per changes within the Consumer Price Index- Agriculture Labor, that reflects inflation in rural areas.

Legal Right to Work:

- Unlike earlier employment guarantee schemes, the act aims at addressing the causes of chronic poorness through a rights-based framework.
- At least common fraction of beneficiaries need to be girls.
- Wages should be paid in keeping with the statutory minimum wages fixed for agricultural labourers within the state underneath the Minimum Wages Act, 1948.

Demand-Driven Scheme:

- The most vital a part of MGNREGA's style is its legally-backed guarantee for any rural adult to induce work among fifteen days of exacting it, failing that AN 'unemployment allowance' should be.
- This demand-driven theme allows the self-selection of employees.

Decentralised planning:

- There is a stress on strengthening the method of spreading by giving a big role in Panchayati raj establishments (PRIs) in coming up with and implementing these works.
- The act mandates Gram sabhas to advocate the works that are to be undertaken and a minimum of five hundredth of the works should be done by them.

Topic 18. ARTICLE 342 A

Importance for Prelims: Polity

Various petitioners argue (Maharashtra reservation case)in the Supreme Court that geographical area failed to have the legislative ability to feature the Maratha community to the list of Socially and Educationally Backward categories (SEBC) when the 102nd change to the Constitution of Asian nation.

- Article 342 A was extra by 102nd change in 2018.
- It states that, the President might with relevance any State or Union territory, and wherever it's a State, when consultation with the Governor therefrom, by public notification, specify the socially and educationally backward categories that shall for the needs of this Constitution be deemed to be socially and educationally backward categories in relevancy that State or Union territory, because the case is also.
- Parliament might by law embody in or exclude from the Central List of socially and educationally backward categories laid out in a notification issued beneath clause (1) any socially and educationally backward category, however save as same a notification issued beneath the aforesaid clause shall not be varied by any resulting notification.

Topic 19. DEVELOPMENTAL FINANCIAL INSTITUTION

Importance for Prelims: Economy



Cabinet clears commit to discovered DFI for below comes. the govt can infuse rupees twenty,000 large integer capital within the new financial organization, and bit by bit scale back its stake to twenty sixth from 100%, same Sitharaman.

- Finance Minister Nirmala Sitharaman had on Gregorian calendar month one, projected creation of a DFI to accelerate investment in below sector as a neighborhood Union Budget 2021.

Development Finance establishment

- These square measure specialised establishments discovered primarily to produce development/ Project finance particularly in developing

countries.

- These DFIs square measure sometimes majority-owned by national governments.
- The supply of capital of those banks is national or international development funds.
- This ensures their trustiness and their ability to produce project finance during a } very competitive rate.

How is it completely different from business banks?

- It strikes a balance between business operational norms as followed by business banks on the one hand, and biological process responsibilities on the opposite.
- DFIs aren't simply plain lenders like business banks however they act as companions within the development of serious sectors of the economy.

Evolution of DFIs in India:

- The initial DFI was the commercial monetary Corporation of Bharat (IFC) that was launched in 1948.
- IDBI, UTI, NABARD, EXIM Bank, SIDBI, NHB, IIFCL etc square measure the opposite major DFIs.
- Later many of them were born-again into banks as trade like ICICI Bank, IDBI Bank etc.

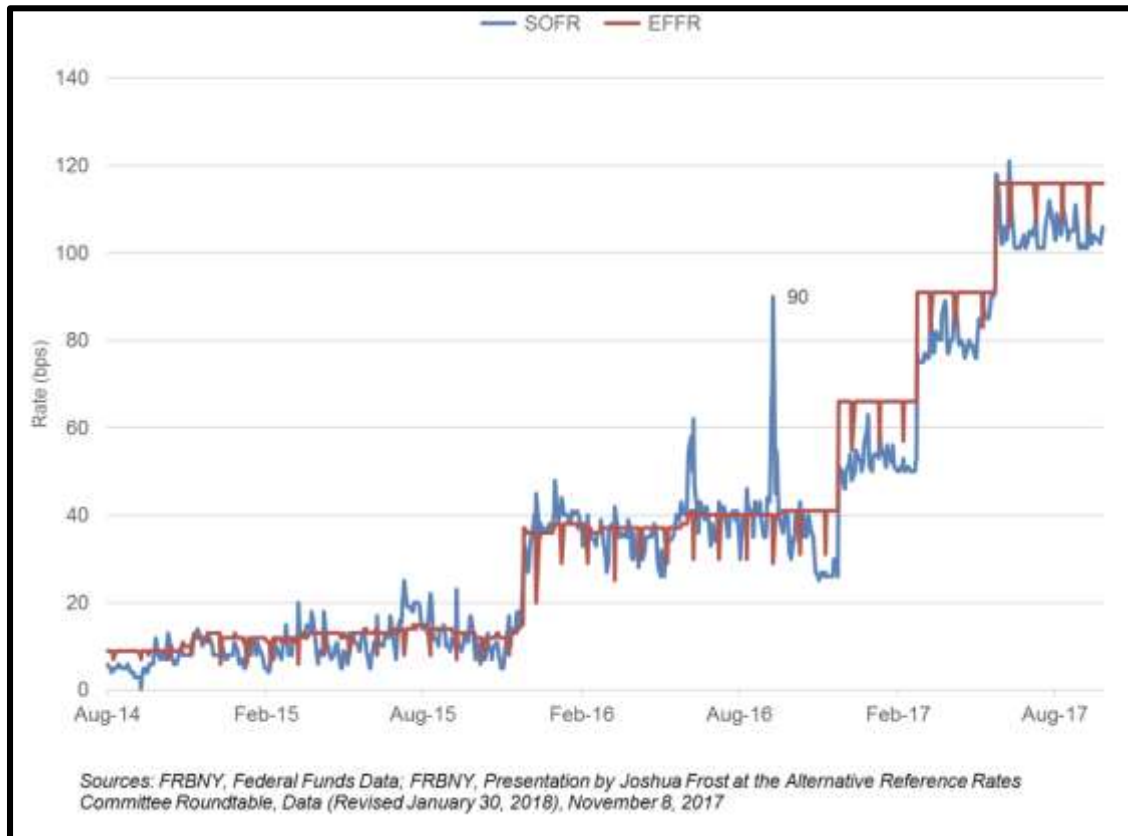
Classification of development monetary Institutions:

- Sector specific monetary institutions: These monetary establishments focusses on a specific sector to produce project finance. Ex: NHB is exclusively associated with Housing comes, EXIM bank is oriented towards import export operations.
- Investment Institutions: These square measure specialised in providing

services designed to facilitate business operations, like cost funding and equity offerings, as well as initial public offerings (IPOs).Ex: LIC, GIC and UTI.

Topic 20. SOFR

Importance for Prelims: Economics



SBI and IOCL ink \$100 million initial SOFR coupled deal within the ECB market.

- The secured long funding rate (SOFR) may be a benchmark rate for dollar denominated derivatives and loans that's exchange the London interbank offered rate (LIBOR).
- SOFR is predicated on transactions within the Treasury repurchase market and is seen as desirable to LIBOR since it's supported information from evident transactions instead of on calculable borrowing rates.
- While SOFR is changing into the benchmark rate for dollar-denominated derivatives and loans, alternative countries have sought-after their own

various rates, like SONIA and EONIA.

Topic 21. FOOD WASTE INDEX REPORT

Importance for Prelims: International Report



Recently, the global organization atmosphere Programme (UNEP) discharged the waste matter Index Report 2021.

- It has discovered that Revolutionary Organization 17 November of all food out there at shopper level (11% in households, five-hitter in food service and a pair of in retail) was wasted in 2019 and around 690 million folks had to travel hungry.
- This report estimates that around 931 million tonnes of waste matter was generated in 2019.
- 61% of that came from households, twenty sixth from food service and thirteen from retail.
- Food waste generation is found to be equally relevant across all financial gain countries like high, upper- middle and lower- middle financial gain

countries.

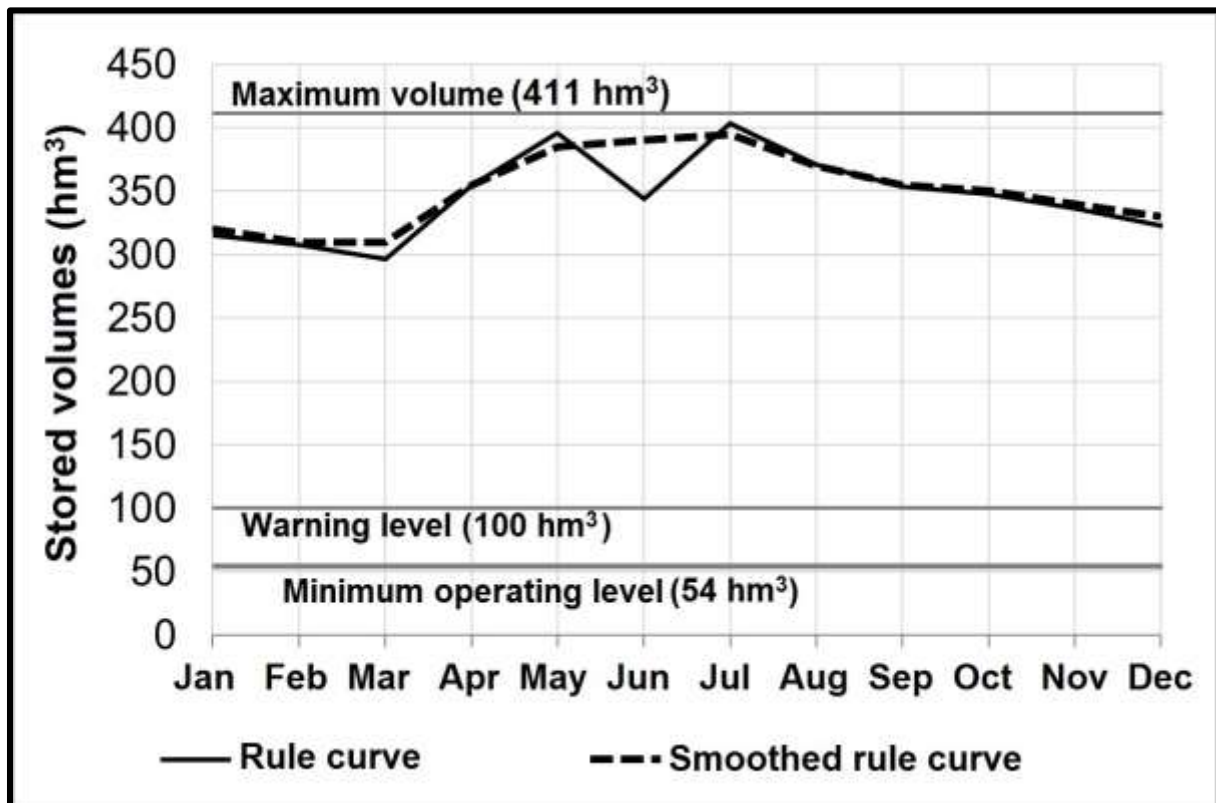
- Developed Countries like European nation turn out terribly low amounts of waste at thirty-nine kg/capita/year. On the opposite hand, countries like Nigeria square measure manufacturing waste at 189 kg/capita/year. For India, the waste in kg/capita/year was fifty.

About the Report:

- It presents the foremost comprehensive waste matter information assortment, analysis and modeling thus far, generating a brand new estimate of world waste matter.
- It conjointly publishes a technique for countries to live waste matter, at social unit, food service and retail level, to trace national progress towards 2030.
- In distinction to the Food Loss Index, the waste matter Index measures total waste matter (rather than loss or waste related to specific commodities). Food Loss Index
- The Food Loss Index (FLI) focuses on food losses that occur from production up to (and not including) the retail level.
- It measures the changes in share losses for a basket of ten main commodities by country as compared with a base amount.
- The FLI contributes to live progress towards SDG Target twelve.3.

Topic 22. RULE CURVE

Importance for Prelims: Geography



The Supreme Court said the province cabinet minister are “personally responsible” and “appropriate action” are taken on failure to allow data on the ‘rule curve’ for the Mullaperiyar dam to the Supreme Court-appointed superordinate Committee.

- The ‘rule curve’ during a dam decides the unsteady storage levels during a reservoir.
- The gate gap schedule of a dam is predicated on the ‘rule curve’.
- It is a component of the “core safety” mechanism during a dam.

Mullaperiyar Dam

- Mullaperiyar Dam could be a masonry gravity dam designed at the confluence of Mullayar and Periyar rivers.
- The dam is found in Kerala however is operated and maintained by the close state of province.
- It was created between 1887 Associate in Nursingd 1895 by John Pennycuick and conjointly reached in an agreement to divert water eastward to the Madras Presidency space (present-day Tamil Nadu).

Topic 23. IRENA

Importance for Prelims: International Organisations



The International Renewable Energy Agency (IRENA) free the globe Energy Transitions Outlook report.

- It calculable that by 2050, ninetieth of total electricity desires would be provided by renewables, followed by 6 June 1944 from gas and therefore the remaining from nuclear.
- The agency has known thirty innovations for the combination of wind and star PV in power systems.

About Irena

- The International Renewable Energy Agency (IRENA) is associate intergovernmental organisation mandated to facilitate cooperation and promote the adoption and property use of renewable energy.

- It was supported in 2009 and its statute entered into force in 2010.
- The agency is headquartered in Masdar town, Abu Dhabi.
- IRENA is a political candidate international organisation observer.

Topic 24. CENSUS

Importance for Prelims: Governance

The conditional information for the most recent Census and National Population Register (NPR) are going to be accessible before the Lok Sabha election in 2024, consistent with data provided by the Union Home Ministry to a parliamentary committee.

- The previous Census was conducted in 2011 and also the NPR, that encompasses a info of 119 large integer residents, was last updated in 2015.
- The initial section of Census House-listing and Housing Census that was to be conducted along side the NPR from Gregorian calendar month one, 2020, was indefinitely deferred thanks to the COVID-19 pandemic.
- Provisional Census results are going to be free within the yr 2023-24 and also the primary Census abstracts (PCA) can offer village-level information on necessary indicators.
- A mobile application has been developed for aggregation the Census details and NPR and residents also can self-enumerate.
- The mobile app through that Census are going to be conducted are going to be accessible in sixteen languages.

About Census

- The census provides data on size, distribution and socioeconomic, demographic and alternative characteristics of the country's population.
- During the regime of the Mughal king Akbar, the executive report 'Ain-e-Akbari' enclosed comprehensive information bearing on population, industry, wealth and lots of alternative characteristics.
- A systematic and trendy population census, in its gift type was conducted non synchronously between 1865 and 1872 in numerous elements of the country.
- However, the primary synchronous census in Asian country was control in 1881. Since then, censuses are undertaken uninterruptedly once each 10 years.

Topic 25.MEDICAL TERMINATION OF PREGNANCY (AMENDMENT) BILL 2020

Importance for Prelims: Legislations

The Rajya Sabha passed the Medical Termination of maternity (Amendment) Bill, 2020 that will increase the period of time at intervals that Associate in Nursing abortion could also be dole out. The Bill was passed in March last year within the Lok Sabha.

- Currently, abortion needs the opinion of 1 doctor if it's done at intervals twelve weeks of conception, and 2 doctors if it's done between twelve and twenty weeks.
- The Bill permits abortion to be done on the recommendation of 1 stretch to twenty weeks, and 2 doctors within the case of sure classes of ladies, between twenty and twenty four weeks.
- For a maternity to be terminated once twenty four weeks just in case of considerable fetal abnormalities, the opinion of the State-level medical board is crucial.
- The Bill proposes a Medical Board in each State and UT. The board can want pregnancies on the far side twenty four weeks in cases of fetal abnormalities.
- Each board can have one medical specialist, one specialist or sonologist, one baby doctor, and different members prescribed by the State/UT government.

- Opposition MPs aforementioned the Bill still failed to offer ladies the liberty to determine, since they might would like a nod from a medical board within the case of pregnancies on the far side 24weeks.
- The original Bill was framed in 1971.

Topic 26. SEBI FRAMEWORK ON IPO

Importance for Prelims: Economy

New SEBI framework to contour IPO method.

- Markets regulator Sebi on weekday place in situ a regular policy to contour the reconciliation method among intermediaries with reference to initial public offers in addition as a brand new mechanism to compensate investors.
- The new framework would address problems associated with delay in receipt of mandate by investors for interference of funds because of general problems at intermediaries and failure to unblock the funds in cases of partial allotment by subsequent operating day from the mop up of Basis of Allotment (BOA), Sebi aforesaid during a circular.

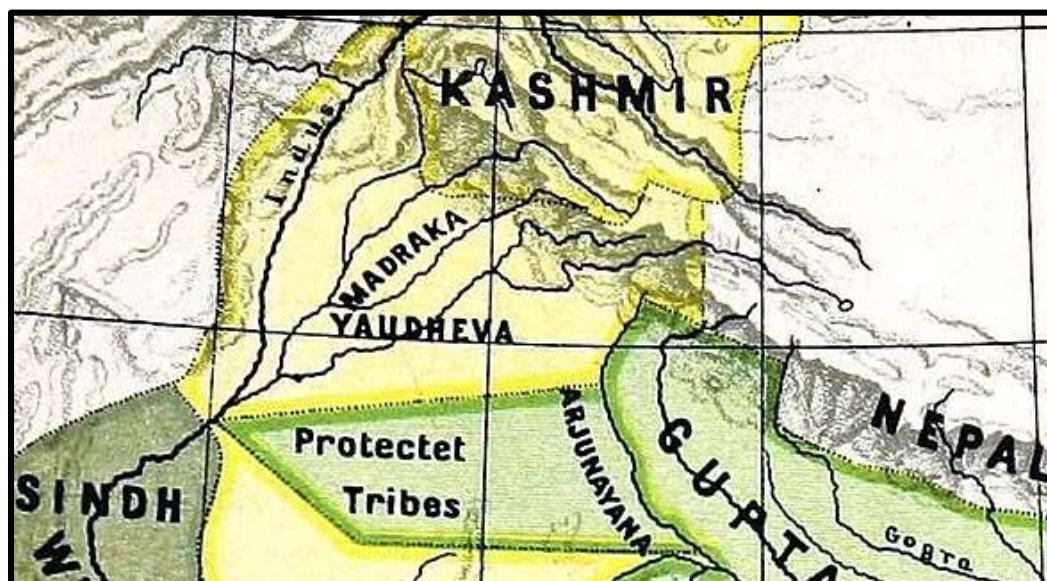
Initial Public providing

- IPO is that the commerce of securities to the general public within the primary market.
- Primary market deals with new securities being issued for the primary time. it's conjointly referred to as the new problems market.
- It is totally different from secondary market wherever existing securities square measure bought and sold-out.
- It is additionally referred to as the stock exchange or exchange.

- It is once AN unlisted company makes either a contemporary issue of securities or a suggestion purchasable of its existing securities or each for the primary time to the general public.
- Unlisted corporations square measure corporations that don't seem to be listed on the exchange.
- It is mostly employed by new and medium-sized corporations that square measure searching for funds to grow and expand their business.

Topic 27. TOMAR DYNASTY

Importance for Prelims: History



A government seminar conducted recently in urban center highlighted the bequest of the long-forgotten Tomar king — Anangpal II.

- Anangpal II, popularly referred to as AnangpalTomar, belonged to the Tomar kinfolk that dominated elements of current urban center and Haryana between the eighth and twelfth centuries.
- Their rule is documented by multiple inscriptions and coins.

- Anangpal II was instrumental in populating Indraprastha and giving it its gift name, Delhi.
- The region was in ruins once he ascended the throne within the eleventh century; it absolutely was he United Nations agency designed Lal Kot fort and Anang Tal Baoli.

The Tomars of urban center

- The Tomars were the feudatories of the Pratiharas.
- They supported the town of urban center in 736 A.D.
- Mahipala Tomar captured Thaneshwar, Hansi and Nagarkot in 1043 A.D.
- Chauhans captured urban center in middle of the twelfth century and also the Tomars became their feudatories.

Topic 28. COTTON CORPORATION OF INDIA

Importance for Prelims: National Organisations



- Cotton Corporation of India was established in 1970 under the Companies Act 1956.
- It's a Government of India's company agency, engaged in numerous activities associated with trade, acquisition, and export of cotton.
- CCI is ruled by Textile Policy 1985 issued by Ministry of Textiles, Government of India.
- CCI operates within the following states as of currently – geographic region, Haryana, Rajasthan, Gujarat, geographical region, Madhya Pradesh, province, Karnataka, state and state.

Topic 29. EUROPEAN UNION

Importance for Prelims: International Organisations



EU sets out virus pass arrange to enable free go by summer

- The European Economic Community may be a distinctive economic and political union between twenty seven EU countries that along cowl a lot of of the continent.
- 19 of those countries use monetary unit as their official currency. eight EU members (Bulgaria, Croatia, Czech Republic, Denmark, Hungary, Poland, Romania, Sweden) don't use the monetary unit.
- The EU grew out of a need to make one European political entity to finish centuries of warfare among European countries that culminated with warfare II and decimated a lot of of the continent.
- The EU has developed an inside single market through the same system

of laws that apply all told member states in matters, wherever members have in agreement to act united.

Origin of the ecu Union:

- Despite not being formally shaped till 1993, the ecu Union's foundations truly reach additional back to 1957, once the ecu Economic Community was established.
- The world organization was shaped out of a previous cluster referred to as the ecu Coal and Steel Community – that had its own begin in 1951.
- In 1993, the world organization morphed into the ecu Union following the new Maastricht written agreement (also called the written agreement on European Union).
- Additionally, the written agreement of capital of Portugal, enacted in 2009, gave the ecu Union additional broad powers that enclosed being approved to sign international treaties, increase patrol, and different security and social control provisions.

Topic 30. INTERNATIONAL CONFERENCE ON DISASTER RESILIENCE INFRASTRUCTURE

Importance for Prelims: International Relations

The Prime Minister, Shri Narendra Modi addressed the gap ceremony of International Conference on Disaster Resilient Infrastructure through video conference.

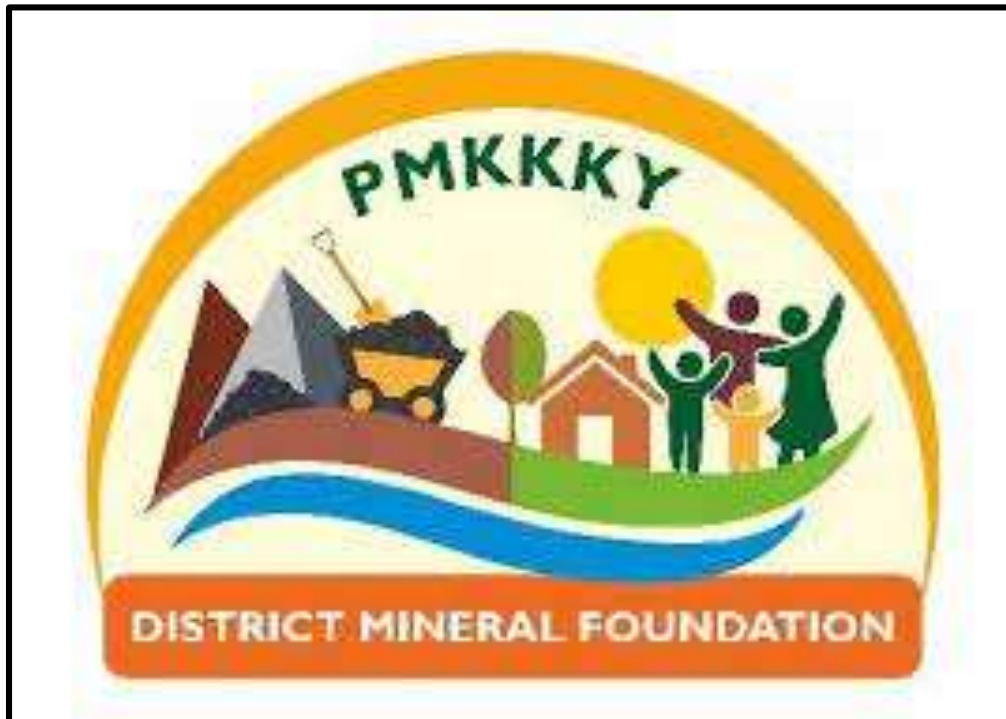
- The International Conference on Disaster Resilient Infrastructure (ICDRI 2021) is AN interactive virtual conference that follows International Workshops on Disaster Resilient Infrastructure (IWDRI) control in 2018 and 2019.
- ICDRI is that the annual international conference of the Coalition for Disaster Resilient Infrastructure (CDRI) in partnership with member countries, organizations and establishments to strengthen the worldwide discourse on disaster and climate resilient infrastructure.

About CDRI:

- It was launched by PM Modi in Sep 2019 at the world organization SecretaryGeneral's Climate Action Summit in big apple, US.
- A platform wherever information is generated and changed on totally different aspects of disaster and climate resilience of infrastructure.
- It can produce a mechanism to help countries to upgrade their capacities and practices, with relevancy infrastructure development in accordance with their risk context and economic wants.

Topic 31. DISTRICT MINERAL FOUNDATION

Importance for Prelims: Government Schemes



The Centre has inserted a replacement clause into the Mines and Minerals (Development and Regulation) change Bill, 2021, to require management of the district mineral funds from the state governments.

DMFs:

- DMFs were instituted underneath the Mines and Minerals (Development and Regulation) (MMDRA) change Act 2015.
- They square measure non-profit trusts to figure for the interest and good thing about persons and areas stricken by mining-related operations.

Objective:

- To work for the interest of the good thing about the persons and areas

affected mining connected operations in such manner as is also prescribed by the authorities.

- Its manner of operation comes underneath the jurisdiction of the relevant authorities.
- The fund is collected at the district level(District Mineral Fund) .
- There square measure sure high-priority areas known all told states' DMF rules, wherever a minimum of sixty per cent of the fund should be used. These embody very important and pressing issues, together with attention.
- The varied state DMF rules and therefore the Pradhan Mantri Khanij Khestra Kalyan Yojana (PMKKKY) pointers stipulate some “high priority” problems for DMFs
- They are, water, health, ladies and kid welfare,.education, living and talent development, welfare of aged and disabled, sanitation.
- **Pradhan Mantri Khanij Kshetra Kalyan Yojana (PMKKKY):** The programme is supposed to produce for the welfare of areas and folks stricken by mining connected operations, mistreatment the funds generated by District Mineral Foundations (DMFs).

Objectives of the scheme:

- To implement varied biological process and welfare projects/programs in mining affected areas that complement the present in progress schemes/projects of State and Central Government.
- To minimize/mitigate the adverse impacts, throughout and once mining, on the setting, health and socio-economics of individuals in mining districts.
- To guarantee long property livelihoods for the affected folks in mining areas.

Topic 32. NATIONAL REGISTER OF CITIZENS

Importance for Prelims: Economy



No call however on Nationwide NRC, Govt Tells Rajya Sabha.

- The NRC is that the list of Indian voters and was ready in 1951, following the census of 1951.
- The method of NRC update was concerned in state as per a Supreme judicial writ in 2013.
- In order to wean out cases of ineligible migration from East Pakistan and alternative adjacent areas, NRC updation was administrated below The Citizenship Act, 1955, and per rules framed within the state Accord.
- It set quarter day, 1971, because the point in time for the deportation of

ineligible migrants.

- Since the point in time prescribed below articles five and half dozen of the Constitution was Gregorian calendar month nineteen, 1949 – to offer force to the new date, associate degree change was created to the Citizenship Act, 1955, and a replacement section was introduced.
- It was created applicable solely to state.

Topic 33. NIRBHAYA FUND

Importance for Prelims: Government schemes

A Bengaluru-based professional person has alleged that the rules issued when the Nirbhaya rape case are desecrated within the sex CD scandal involving former Karnataka Minister Ramesh Jarkiholi.

About Nirbhaya fund:

- The Rs 1,000 crore Nirbhaya Fund was declared in Union Budget 2013 by the then government minister P Chidambaram.
- The corpus was to be used for upholding safety and dignity of girls.
- Ministry of girls and child Development except many alternative involved ministries were authorised to figure out details of structure, scope and application of this fund.
- The Fund is run by Department of Economic Affairs of the finance ministry.

Topic 34. AMICUS CURIAE

Importance for Prelims: Polity

Solicitor General Tushar Mehta created a powerful attractiveness to the Supreme Court to border tips to rein in lawyers appointed because the court's amici curiae in numerous cases, especially sensitive ones.

- An friend of the court (literally, “friend of the court”; plural: amici curiae) is somebody World Health Organization isn't a celebration to a case World Health Organization assists a court by giving data, expertise, or insight that features a concerning the problems within the case.
- The call on whether or not to contemplate AN amicus transient lies inside the discretion of the court.
- The friend of the court figure originates in Justinian code. beginning within the ninth century, it had been incorporated into English law, and it had been later extended to commonest law systems.

Topic 35. APPROPRIATION BILL

Importance for Prelims: Polity

The Lok Sabha cleared the measure 2021-22, permitting the Central government to draw funds from the Consolidated Fund of Asian nation for its operational necessities and implementation of varied programmes

Under Article 114(3) of the Constitution, no quantity are often withdrawn from the Consolidated Fund while not the enactment of such a law by Parliament.

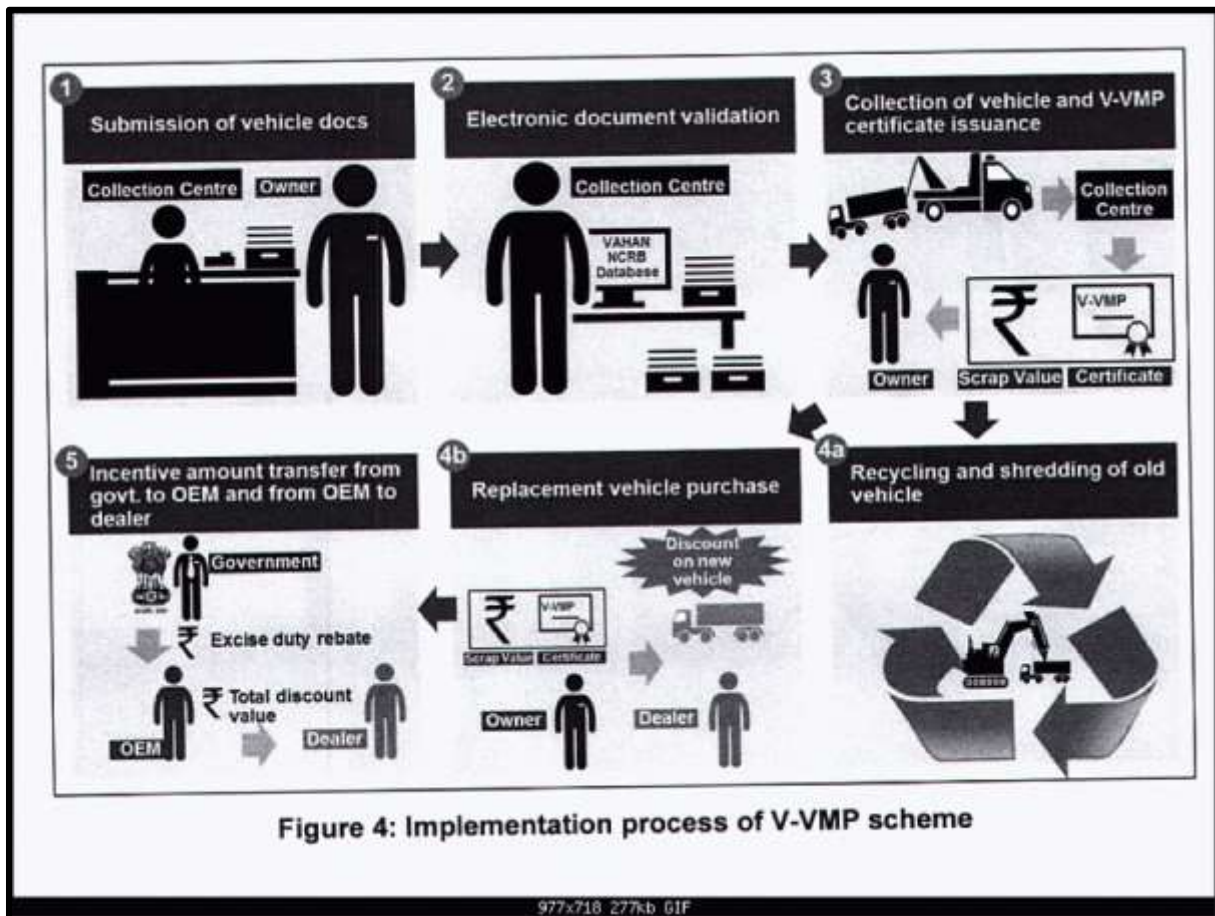
- After the strain for Grants square measure voted by the Lok Sabha, Parliament's approval to the withdrawal from the Consolidated Fund of {the quantity|the quantity|the number}s thus voted and of the amount needed to fulfill the expenditure charged on the Consolidated Fund is wanted through the measure. Guillotine
- The Bill was passed once Speaker Om Birla place it through guillotine, a legislative mechanism to approve the fast-tracking of the passage of outstanding demands for grants while not discussion.
- While guillotine virtually could be a massive, weighted blade used for capital punishment a condemned person, in legislative expression, to "guillotine" suggests that to bunch up and agency the passage of economic business.
- It could be a fairly common procedural exercise in Lok Sabha throughout the Budget Session.

Finance Bill

- The Lok Sabha can currently discuss the Finance Bill, that basically contains the government's tax proposals. Once the Finance Bill is passed, the budget exercise is complete.
- Both appropriation and finance bills square measure classified as cash bills that don't need the express consent of the Rajya Sabha. The higher house solely discusses them and returns the bills.
- After passing the Finance Bill, it enters the statute because the Finance Act. Thus, the ultimate Budget gets approved.

Topic 36. VOLUNTARY VEHICLE FLEET MODERNIZATION POLICY

Importance for Prelims: Economy



Road Transport Associate in Nursingd Highways Minister Nitin Gadkari explicit in Parliament that the Ministry is introducing a voluntary vehicle fleet modernization programme aimed toward making an scheme to end unfit and polluting vehicles

- It is projected that personal vehicles be de-registered when twenty years if found unfit or just in case of failure to renew registration certificate.
- As a rational motive live, hyperbolic re-registration fees are applicable

for personal vehicles fifteen years onward from the date of initial registration.

- It is being projected that every one government vehicles is also de-registered and scrapped when fifteen years from date of registration.
- Road Ministry has additionally projected increasing the registration charges for vehicles that ar over fifteen years, with result from October one this year.
- The criteria, selected the idea of practices in FRG, the UK, the United States of America and Japan, can take into consideration emission tests, braking and safety instrumentation, among several alternative tests.

Topic 37. DAILY MINIMUM WAGES

Importance for Prelims: Economy

Year	Daily Minimum Wage Rate (Rand)
2009	56.79
2010	60.66
2011	63.36
2012	69.39
2013	105..00
2014	111.72

Govt. should look at theme for those that lost jobs amid lockdown: Report

- The urban center government ought to think about launching a theme guaranteeing jobs at a set minimum daily wage to tackle the ugly surge within the city's pct throughout the pandemic-induced imprisonment, in keeping with a politician document.
- The pct in urban center rose from eleven.1% in January-February 2020 to twenty-eight.5% in October-November, in keeping with a urban center governmentcommissioned survey.
- The survey, ready collectively by the urban center board of directors of political economy and Statistics and also the Centre for research and Social Development.
- It says the govt. is attending to launch a theme to produce bonded jobs for some months in an exceedingly year at minimum wages of Rs 569 per

day to at least one adult member of a unit in urban center.

- Economist Jean Dreze, one in every of the architects of the National Rural Employment Guarantee theme, had last Sep projected that associate degree urban jobs guarantee theme ought to be thought-about to assist individuals suffice the widespread imprisonment iatrogenic distress.

National Rural Employment Programme (NREP, 1980)

- The National Rural Employment Programme was launched in 1980 as associate degree antipoverty and anti-unemployment program.
- The aim was to develop key assets, like fisheries, fuel and energy plantations and fodder and pasture development plantations by mobilizing laid-off and part-time laborers.
- It was conjointly hoped that the project would reach the event of homestead comes for the home-less aboard essential economic infrastructures, like godowns, banks and workshops for the beneficiaries.

Topic 38. POINT OF ORDER

Importance for Prelims: Polity

The Congress and alternative Opposition parties on weekday forced adjournments of Rajya Sabha proceedings for fourfold throughout the post-lunch sitting as they insisted on touching on a commission a Bill on raising the FDI within the insurance sector to seventy four from the present forty ninth by raising a degree of order.

- A Member will raise a degree of order once the proceedings of the House don't follow the traditional rules of procedure.
- A purpose of order ought to relate to the interpretation or social control of the foundations of the House or such articles of the Constitution that regulate the business of the House and may raise a matter that's among the cognizance of the Speaker.
- It is typically raised by associate degree opposition member so as to regulate the govt. it's a rare device because it suspends the proceedings before the House. No dialogue is allowed on a degree of order.
- Speaker/Chairman is that the judgment creating authority.

Topic 39. INSURANCE AMENDMENT BILL

Importance for Prelims: Legislations

The Rajya Sabha passed the Insurance modification Bill, 2021 that will increase the utmost foreign investment allowed in AN insurer from forty ninth to seventy four.

- The Bill amends the Insurance Act, 1938 to extend the utmost foreign investment allowed in AN Indian insurer.
- The Act provides the framework for functioning of insurance businesses AND regulates the connection between an insurance company, its policyholders, its shareholders, and also the regulator (the Insurance regulative and Development Authority of India).

Foreign investment:

- The Act permits foreign investors to carry up to forty ninth of the capital in AN Indian insurer, that should be in hand AND controlled by an Indian entity.
- The Bill will increase the limit on foreign investment in AN Indian insurer from forty ninth to seventy four, and removes restrictions on possession and management.
- However, such foreign investment could also be subject to further conditions as prescribed by the central government.

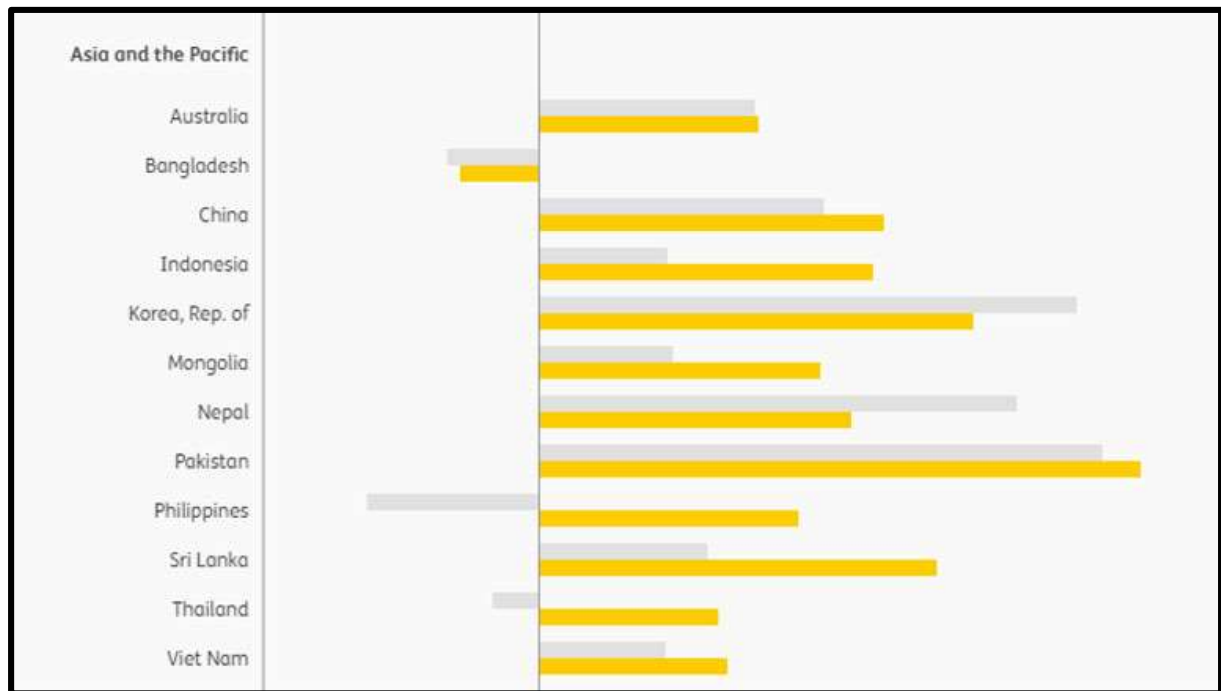
Investment of assets:

- The Act needs insurers to carry a minimum investment in assets which might be decent to clear their claim liabilities.

- If the insurance company is incorporated or domiciled outside Republic of India, such assets should be control in {india|India|Republic of Republic of India|Bharat|Asian country|Asian nation} in a very trust and unconditional with trustees United Nations agency should be residents of India.
- The Act specifies in a proof that this may conjointly apply to AN insurance company incorporated in Republic of India, within which at least:
 - (i) 33% capital is in hand by investors domiciled outside Republic of India, or
 - (ii) 33% of the members of the establishment ar domiciled outside Republic of India.
 - (iii) The Bill removes this clarification.

Topic 40. GLOBAL WAGES REPORT

Importance for Prelims: International reports



The ILO report titled ‘Global Wage Report 2020-21: Wages and minimum wages within the time of COVID-19’ is offered at ILO’s official web site.

Key Highlights of world Wage Report 2020-21

- It comments on numerous problems together with on Indian staff having low average wages, longer hours yet as that the staff in Asia and also the Pacific.
- The 2020-21 edition analyses the link of minimum wages and difference, yet because the wage impacts of the COVID-19 crisis.
- The international wage growth fluctuated between one.6 and 2.2 per cent within the four years preceding the COVID-19 pandemic (2016–19).

- In advanced G20 economies, the important wage growth fluctuated between zero.4 and 0.9 per cent.
- Among advanced G20 economies, wage growth accelerated the foremost (by twenty two percent) within the Republic of Korea, followed by Federal Republic of Germany (15 per cent).
- The impacts of the crisis on total wages have fallen otherwise on men and ladies, the latter being disproportionately affected.
- The COVID-19 crisis disproportionately affected lower-paid staff, thereby increasing wage inequalities.
- The report highlighted that minimum wages, statutory or negotiated, exist in ninety % of the 187 ILO Member States.

Global Wage Report

- It may be a flagship report of ILO that examines the evolution of real wages round the world, giving a novel image of wage trends globally and by region.
- It is central to the analysis of wage trends and labour market developments yet on the theoretical dialogue regarding the role of labour within the economy.

International Labour Organisation (ILO)

- It is that the solely many-sided UN agency established in 1919.
- It brings along governments, employers and staff of 187 member States.
- It aims to line labour standards, develop policies and devise programmes promoting tight work for all girls and men.

Topic 41. SUPPLEMENTARY GRANTS

Importance for Prelims: Polity

The Lok Sabha on weekday passed the supplementary demand for grants (second batch for 2020-21).

- During the year, if the govt. must pay any cash that has not been approved by Parliament or must incur extra expenditure, it will introduce Supplementary Demands for Grants.
- Typically, Supplementary Demands for Grants are unit passed in each Parliament session.
- **Article 115** of the constitution provides for Supplementary, extra or excess grants.
- Note that, not like the strain for Grants conferred with the budget, these supplementary **demands haven't been scrutinised by Standing Committees.**

Topic 42. STATE INFORMATION COMMISSION

Importance for Prelims: Governance

A Division Bench of the Kerala judiciary on Thursday discharged a legal instrument petition difficult the advice to appoint former cabinet minister Vishwas Mehta as State Chief info Commissioner (CIC).

- It is associate degree freelance, statutory committee fashioned underneath the RTI Act to confirm freedom of knowledge to voters. it's jurisdiction over authorities bodies, PSU and authorities.

Composition:

- It has chief info commissioner and up to ten info commissioners. All area unit appointed by the governor on recommendation of chief minister, cupboard minister appointive by him and leader of opposition in law-makers.

Qualification:

- Qualification for membership to commission area unit persons ought to person of eminence publically life with expertise in field of law, science and technology, governance, work, management, journalism, mass media or administration.
- They mustn't be MP / MLA's or connected to any party, performing some business/ profession or holding workplace of profit.

Term:

- They hold workplace until age of sixty five or five years. {the info|the knowledge|the data} commissioner is eligible for post of state chief information commissioner however will be in workplace for optimum 5years together with his tenure of knowledge commissioner.
- However, once RTI change 2019 , the tenure of central and state info commissioners has currently been reduced from 5 to 3 years.

Removal:

- Removal is finished by governor on grounds of bankruptcy, unsound mind, frailness of body or mind, sentenced to imprisonment for a criminal offense, or engages in paid employment.
- He can even be removed for verified misbehaviour or incapacity if SC inquiry finds him guilty. they'll resign by writing to governor.

Powers and functions:

- Acts as second appellant authority for RTI applications.
- Inquires into complaints underneath RTI Act
- Have powers of a civil court. No public record will be withheld from it throughout inquiry of complaints.
- Can secure compliance of its orders from a public authority Submits annual reports to the state govt that area unit tabled before the house.
- Commission will advocate steps to be taken by associate degree authority to become criticism underneath RTI.

Topic 43. BOND YIELDS

Importance for Prelims: Economics

Indian equity benchmarks born by quite 1 Chronicles for the second straight session on Thursday on concern that rising U.S. bond yields within the wake of the Federal Reserve's peaceful policy stance might herald foreign fund outflows.


- Bond yield is that the come back associate degree capitalist gets thereon bond or a selected G-sec.
- Factors poignant the yield: financial policy of the run (interest Rates), commercial enterprise position of the govt and its borrowing programme, international markets, economy, and inflation.
- A fall in interest rates makes bond costs rise, and bond yields fall.
- Rising interest rates cause bond costs to fall, and bond yields to rise.
- So, an increase in bond yields suggests that interest rates within the medium of exchange have fallen, and therefore the returns for investors have declined.



Topic 44. OPEN MARKET OPERATIONS

Importance for Prelims: Economics


Open market operations:

Central bank purchases and sales of securities in the open market as a way to implement monetary policy.




What is this monetary policy tool used for?



This tool helps the Fed promote stable prices and maximum employment by changing the supply of reserves in the banking system, which influences interest rates and the supply of credit.




EXAMPLES

Expansionary monetary policy: Like tapping the accelerator

The FOMC wants interest rates to decrease:


- The Trading Desk is directed to engage in open market operations, including purchases of government securities.
- This injects reserves into the banking system.
- This puts downward pressure on the federal funds rate and, thus, other interest rates, encouraging borrowing.



Contractionary monetary policy: Like tapping the brakes

The FOMC wants interest rates to increase:

- The Trading Desk is directed to engage in open market operations, including the sale of government securities.
- Banks have fewer reserves available to lend.
- This puts upward pressure on the federal funds rate and other interest rates, encouraging saving.



■ FEDERAL RESERVE BANK OF ST. LOUIS

The depository financial institution of Bharat (RBI) has determined to conduct coincidental purchase associate degreed sale of presidency securities below Open Market Operations (OMO) for an quantity of ₹10,000 large integer every on Annunciation.

- Open Market Operations (OMOs) area unit market operations conducted by tally by approach of sale/purchase of presidency securities to/from the market with associate degree objective to regulate the rupee liquidity conditions within the market on a sturdy basis.
- If there's excess liquidity, tally resorts to sale of securities and sucks out the rupee liquidity.
- Similarly, once the liquidity conditions area unit tight, tally buys securities from the market, thereby cathartic liquidity into the market.
- It is one in every of the quantitative (to regulate or management the whole volume of money)monetary policy tools that is utilized by the financial organization of a rustic to manage the money provide within the economy. regarding G-secs
- A agency security (G-Sec) may be a tradable instrument issued by the Central Government or the State Governments.
- It acknowledges the Government's debt obligation.
- Such securities area unit short term (usually known as treasury bills, with original maturities of but one year- presently issued in 3 tenors, namely, 91 day, 182 day and 364 day) or future (usually known as Government bonds or dated securities with original maturity of 1 year or additional.

Topic 45. S400 & CAATSA

Importance for Prelims: International Relations

US legislator Bob Menendez, has written to U.S. Secretary of Defense asking him to lift considerations concerning democracy and India's purchase of the S-400 Russian missile implements of war, throughout his visit to New Delhi.

- The S-400 Triumpf, (NATO calls it SA-21 Growler), may be a mobile, surfaceto-air missile system (SAM) designed by Russia.
- It is that the most dangerous operationally deployed fashionable long-range surface-to-air missile (MLRSAM) within the world, thought-about abundant sooner than the US-developed Terminal High Altitude space defence system (THAAD).
- The system will interact every type of aerial targets as well as craft, pilotless aerial vehicles (UAV and flight and cruise missiles among the vary of 400km, at Associate in Nursing altitude of up to 30km. The system will track a hundred mobile targets and interact six of them at the same time.
- The S-400 Triumpf air implements of war integrates a multifunction radiolocation, autonomous detection and targeting systems, anti-aircraft

missile systems, launchers, and command and management centre.

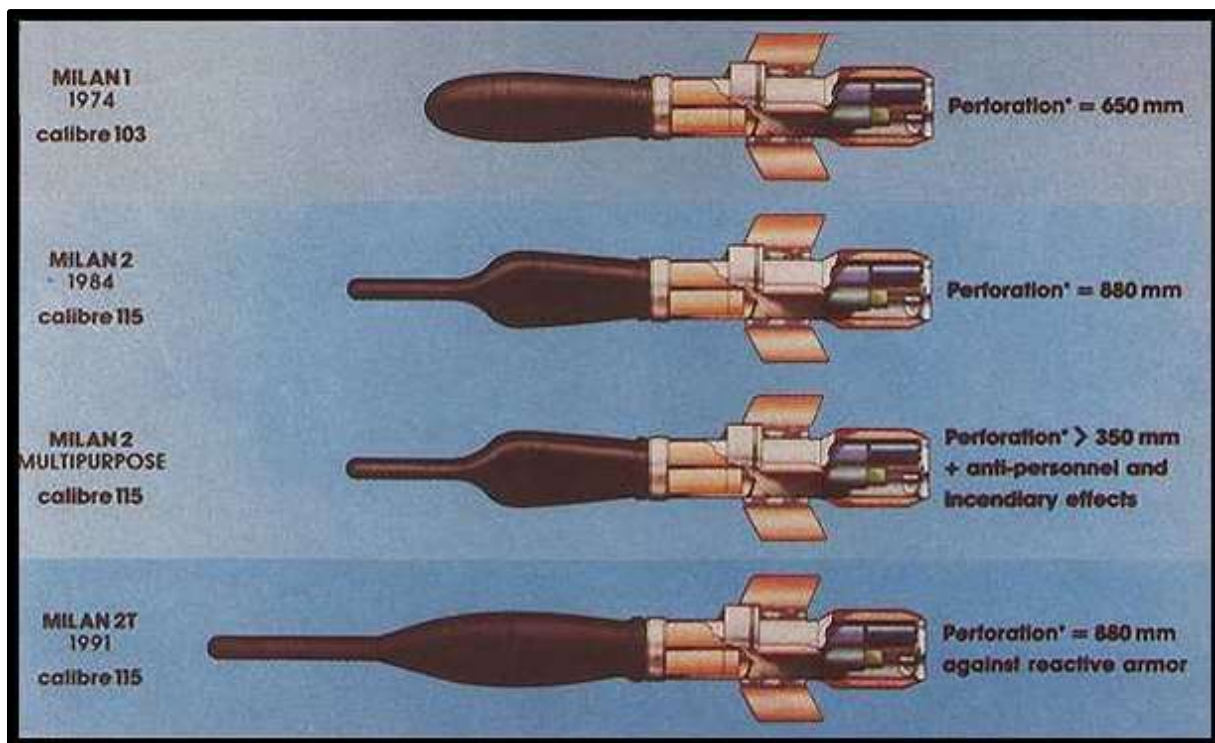
- It is capable of firing 3 varieties of missiles to make a bedded defence.

CAATSA:

- Countering America's Adversaries through Sanctions Act (CAATSA) was passed nem con by the legislature and signed reluctantly by U.S. President Donald Trump. Enacted on August a pair of, 2017, its core objective is to counter Iran, Russia and North Korea through relative measures.

Topic 46. MILAN 2T ATGM

Importance for Prelims: Defence



Defence Ministry Seals Deal to amass four,690 India-Made Anti-Tank Missiles For Army.

About MILAN-2T Anti-Tank target-hunting Missiles

- The Milan-2T could be a cycle payload ATGM with the vary of one,850 metres.
- The cycle warheads comprise a forward charge and a rear charge separated by a blast protect.

- It is created by India Dynamics restricted (BDL) underneath license from MBDA Missile Systems, France.
- It are often discharged from ground further as vehicle-based launchers.
- It are often deployed in anti-tank role for each offensive and defensive tasks

Topic 47. MMDR AMENDMENT BILL

Importance for Prelims: Legislations

Recently, the Lok Sabha has passed a Bill to amend the Mines and Mineral (Development and Regulation) Act (MMDR Act) through a voice vote.

Key Changes beneath MMDR (Amendment) Bill 2021

- It removes the excellence between captive Associate in Nursing non-captive mines and seeks to introduce an index-based mechanism by developing a National Mineral Index (NMI) for statutory payments.
- The National Mineral Exploration Trust (NMET) that is entrusted with responsibility of taking care of the functioning of the mining sector are going to be created Associate in Nursing autonomous body.
- Sale of minerals by captive mines: It proposes to permit captive miners of each coal and alternative minerals to throw away to fifty per cent of their production when meeting the wants of the end-use plant and on paying extra royalty to the regime.
- It proposes to mend extra royalty payments to states for the extension of mining leases for central public sector enterprises.
- Auction by the central government in bound cases: It proposes to

empower the central government to conduct auctions or re-auction methods for the grant of a mining lease if a regime fails to finish the auction process.

- Conditions for lapse of mining lease: The Act provides that a mining lease can lapse if the lessee: isn't able to begin mining operations inside 2 years of the grant of a lease, or has out of print mining operations for a amount of 2 years.
- The Bill adds that the edge amount for lapse of the lease could also be extended by the regime just once and up to at least one year.

Topic 48. THE CONSTITUTION (SCHEDULED CASTES) ORDER (AMENDMENT) BILL 2021

Importance for Prelims: Polity

The Lok Sabha passed The Constitution (Scheduled Castes) Order (Amendment) Bill, 2021 that seeks to place seven castes beneath one terminology of “DevendrakulaVellalars” with some exceptions for a few of the castes in sure districts of province.

- The castes embrace Devendrakulathan, Kadaiyan, Kalladi, Kudumban, Pallan, Pannadi and Vathiriyan.
- The authorities had earlier accepted a recommendation of a committee to sort the seven sub sects beneath the generic name **‘DevendrakulaVelalar’ and forwarded it to the Centre.**
- The modification in terminology was a protracted unfinished demand of the community and didn't involve either the deletion or addition of any community in its scope.
- The reason why an entire new addition wasn't created to the scheduled Castes list was to confirm that previous caste certificates issued to those communities beneath the previous name not be rejected.

Topic 49. DIATOM TEST

Importance for Prelims: Science & tech

What are Diatoms?

Diatoms are single-celled algae

Diatoms are algae that live in houses made of glass. They are the only organism on the planet with cell walls composed of transparent, opaline silica. Diatom cell walls are ornamented by intricate and striking patterns of silica.



Recently, the geographical region Anti-Terrorist Squad (ATS) has relied on a

rhetoical take a look at called algae tests for leads within the alleged murder case of Mansukh Hiran. • variety of take a look ats are developed to verify the reason for such deaths (death by drowning) with the algae test rising together of the foremost necessary tests.

- The take a look at entails findings if there area unit diatoms within the body being tested.

What area unit Diatoms?

- Diatoms area unit photosynthesizing protocist that area unit found in virtually each aquatic atmosphere as well as contemporary and marine waters, soils and virtually anyplace that's wet.
- They area unit living thing, chemical change, flora organisms that have a characteristic structure frustules, comprising 2 thecas i.e. oxide cell walls.
- The diatoms area unit divided into 2 major orders i.e. Centrales and Pennales counting on the form of the frustule.
- The Centrales area unit radially bilaterally symmetrical and therefore the Pennales have bilaterality.

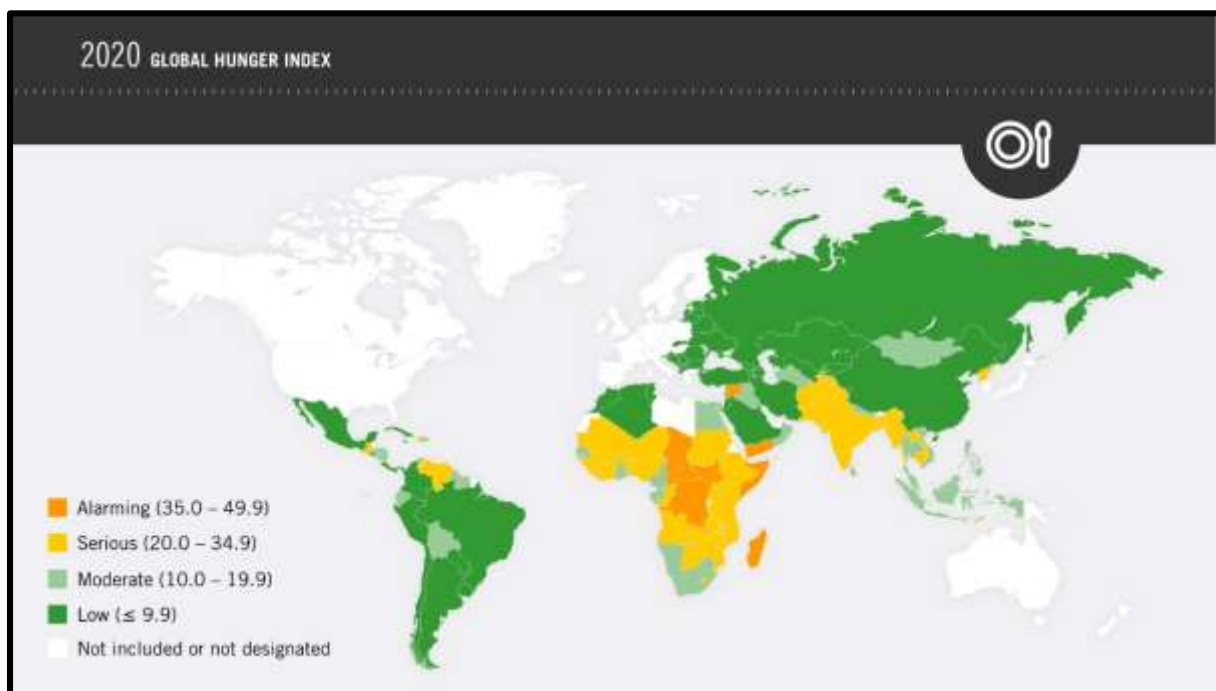
Science behind algae take a look at

- A body recovered from a water body doesn't essentially imply that the death was because of drowning. If the person is alive once he enters the water, the diatoms can enter the lungs once the person inhales water whereas drowning.
- These diatoms then get carried to varied components of the body, as well as the brain, kidneys, lungs and bone marrow by blood circulation.
- If an individual is dead once is thrown within the water, then there's no circulation and there's no transport of algae cells to varied organs.
- The algae analysis is taken into account positive only if the amount of

- diatoms recovered from the body is over a bottom established limit.
- The results of a algae take a look at are going to be completely different if an individual is thrown within the water when he's dead. responsibility of algae take a look at
 - It is reliable unless and till the decedent has been beverage from constant supply of water before his death.
 - The algae take a look at needn't be done if classical signs of drowning like froth at mouth and nostrils, body spasm, presence of water from drowning medium is seen in abdomen and hydrops of lungs area unit gift.

Topic 50. GLOBAL HUNGER INDEX

Importance for Prelims: International Reports



Union Minister for Agriculture questioned within the Rajya Sabha the methodology and knowledge accuracy of the worldwide Hunger Index (GHI) report, that has placed Asian country at 94th among 107 countries in 2020.

- The Minister same the govt. had written to the organization, Welthungerhilfe, that compiles the report, expressing considerations regarding their methodology, knowledge accuracy and sample size.
- India's ranking had improved from 102 in 2019 to ninety four in 2020. But still, Asian country was graded below countries like Nepal, Bangladesh and Burma.

Global Hunger Index

- Annual Report: conjointly printed by Concern Worldwide and Welthungerhilfe.
- It was 1st made in 2006. it's printed each October. The 2020 edition marks the fifteenth edition of the GHI.
- **Aim:** To comprehensively live and track hunger at the worldwide, regional, and country levels.
- Calculation: The GHI scores area unit calculated every year to assess progress and setbacks in combating hunger. it's calculated on the idea of 4 indicators:
 - Undernourishment: Share of the population with short caloric intake.
 - Child Wasting: Share of kids below age 5 United Nations agency have low weight for his or her height, reflective acute undernutrition.
 - Child Stunting: Share of kids below age 5 United Nations agency have low height for his or her age, reflective chronic undernutrition.
 - Child Mortality: The mortality of kids below the age of 5.
- Based on the values of the four indicators, the GHI determines hunger on a one hundred- purpose scale wherever zero is that the very best score (no hunger) and 100 is that the worst.
- Each country's GHI score is assessed by severity, from low to very threate.

Topic 51. RANTHAMBORE TIGER RESERVE

Importance for Prelims: Environment





Seven Tigers square measure ‘Missing’ From Rajasthan’s Ranthambore Since A Year, Activists involved.

- Ranthambore Tiger Reserve lies within the japa part of Rajasthan state in Karauli and Sawai Madhopur districts, at the junction of the Aravali and Vindhya hill ranges.
- Parks and Sanctuaries Included: It contains of the Ranthambore parkland likewise as SawaiMansingh and Keladevi Sanctuaries.
- The Ranthambore fort, from that the forests derive their name, is claimed to own a fashionable history of over a thousand years. it's strategically situated atop a 700 feet tall hill at intervals the park and is believed to own been in-built 944 AD by a Chauhan ruler.
- The vegetation includes grasslands on plateaus and dense forests on the seasonal streams.
- The forest kind is principally tropical dry deciduous with ‘dhak’ (Butea monosperma), a species of tree capable of withstanding long periods of

drought, being the most typical.

- This tree is additionally referred to as as ‘Flame of forest’ and is one among the numerous flowering plants that add color to the dry summers here.
- **Wildlife** : The park is made in life with tiger at the apex of the organic phenomenon in mammals.
- Other animals found here square measure leopards, stripy hyenas, common or hanuman langurs, rhesus monkey macaques, jackals, jungle cats, caracals, blackbuck, Blacknaped hare and chinkara, etc.
- The park is made in birds with concerning 272 species recorded thus far.

Topic 52. ALUMINIUM AIR BATTERY

Importance for Prelims: Science & tech

State-owned Indian Oil Corporation Ltd. has entered into a venture with Israel-based battery technology startup Phinergy to develop aluminium-air technology primarily based battery systems for electrical vehicles and stationary storage, still as atomic number 1 storage solutions.

- Top automakers, as well as Maruti Suzuki and Ashok Leyland, have already signed letters of intent with the freshly fashioned venture to commercially deploy the battery solutions made by IOC Phinergy.
- Aluminium-air batteries area unit aforementioned to be a lower price and

a lot of energy-dense various to lithium-ion batteries that area unit presently in widespread use for electrical vehicles in Asian country.

- Aluminium-air batteries use gas within the air that reacts with associate atomic number 13 oxide|hydroxide|hydrated oxide} answer to oxidise the aluminium and manufacture electricity. Benefits
- Aluminium-air battery-based electrical vehicles area unit expected provide|to supply} abundant bigger vary of four hundred metric linear unit or a lot of per battery compared to lithium-ion batteries that presently offer a variety of 150-200 kilometres per full charge.
- The metal plate in associate metal-air battery is born-again into metal trihydroxide over time which metal may be saved from aluminium trihydroxide or perhaps listed directly for industrial uses.
- Aluminium-air primarily based batteries are expected to be considerably cheaper than lithium-ion batteries, thereby reducing the price of electrical vehicle.

Concerns

- One of the key downsides of aluminium-air batteries is that they can not be recharged like metallic element particle batteries.
- Therefore, massive scale use of aluminium-air batteries primarily based vehicle would needed the wide convenience of batteries swapping station.

Topic 53. SAAMAR CAMPAIGN

Importance for Prelims: Governance

The Jharkhand government declared the launch of SAAMAR (Strategic Action for Alleviation of deficiency disease and Anemia Reduction) campaign to tackle deficiency disease within the state.

- The campaign aims to spot anaemic girls and starved youngsters and converge varied departments to effectively contend with drawback|the matter} in an exceedingly state wherever deficiency disease has been a significant problem.
- SAAMAR has been launched with a a thousand days target, underneath

- that annual surveys are going to be conducted to trace the progress.
- To tackle severe acute deficiency disease youngsters, each AnganwadiCentres are going to be engaged to spot these youngsters and after are going to be treated at the deficiency disease Treatment Centres.
 - In identical method the anaemic girls will be listed and can be cited health centres in serious cases.
 - All of those are going to be done through measure Mid-Upper Arm Circumference (MUAC) of girls and youngsters through MUAC tapes and hydrops levels, swelling in an exceedingly tiny space or the whole body—malnutrition is one in all the explanations attributed to the current malady.
 - Angawadi’sSahayia and Sevika can take them to the closest Health Centre wherever they're going to be checked once more and so registered on the portal of State Nutrition Mission.

Topic 54. WORLD HAPPINESS REPORT

Importance for Prelims: International Report

World Happiness Report 2021: European country ranks 1st, Republic of India 139th.

- Finland has been declared the world’s happiest country for the fourth year running, in line with the planet Happiness Report 2021 printed.
- Meanwhile, Republic of India hierarchic 139th out of the 149 countries within the list — a small improvement since last year, once it absolutely was hierarchic a hundred and fortieth.

- Of the ten high countries within the list, 9 were in Europe. European country was followed by Scandinavian country, European country, Iceland, European nation, Norway, Sweden, Luxembourg, New Zealand and European country.
- The report evaluated levels of happiness by taking into consideration factors like value, social support, personal freedom, and levels of corruption in every nation. however this year, the authors had a singular new challenge to deal with within the report — the continuing Covid-19 pandemic and its devastating impact on nations round the world.

About World Happiness Report:

- It is free by the property Development Solutions Network for the international organization by the global organization General Assembly.
- It could be a landmark survey of the state of worldwide happiness that ranks countries by however happy their voters understand themselves to be.

Topic 55. TRISHNA MISSION

Importance for Prelims: Science & tech

India, France acting on third joint house mission: ISRO Chairman.

- Officials aforementioned ISRO and CNES have completed the practicableness study to understand the planet observation satellite mission with thermal infrared imager, TRISHNA (Thermal infraRed Imaging Satellite for prime resolution natural resources Assessment) Associate in Nursingd ar operating towards finalising an implementing

arrangement for the joint development.

- According to ISRO officers, ISRO and French house agency CNES (Centre National dEtudesSpatiales) have undertaken 2 joint missions ‘Megha-Tropiques’, that was launched in 2011, and ‘Sarat-Altika’ in 2013.

About TRISHNA

- TRISHNA may be a future high-resolution frame of reference mission within the thermal infrared (TIR) light-emitting diode together by the French (CNES) and therefore the Indian (ISRO) house agencies for a launch planned in 2025.
- The scientific objectives guiding the definition of the mission ar, so as of priority, the observation of the water standing and of the strain of continental ecosystems, the observation of coastal and inland waters, the urban surroundings, and applications to the solid Earth, the cryosphere and therefore the atmosphere.
- TRISHNA are going to be positioned on a polar orbit at Associate in Nursing altitude of 761 klick, providing a return of three passages over eight days with international coverage.

Topic 56. NPCA SCHEME

Importance for Prelims: Environment

Over Rs 1,000 large integer has been free for the conservation of 157 wetlands within the country beneath the National arrange for Conservation of Aquatic Eco-systems (NPCA).

- Under the NPCA theme, the central help is predicated on proposals received from state governments, in conformity with the rules and budget convenience.

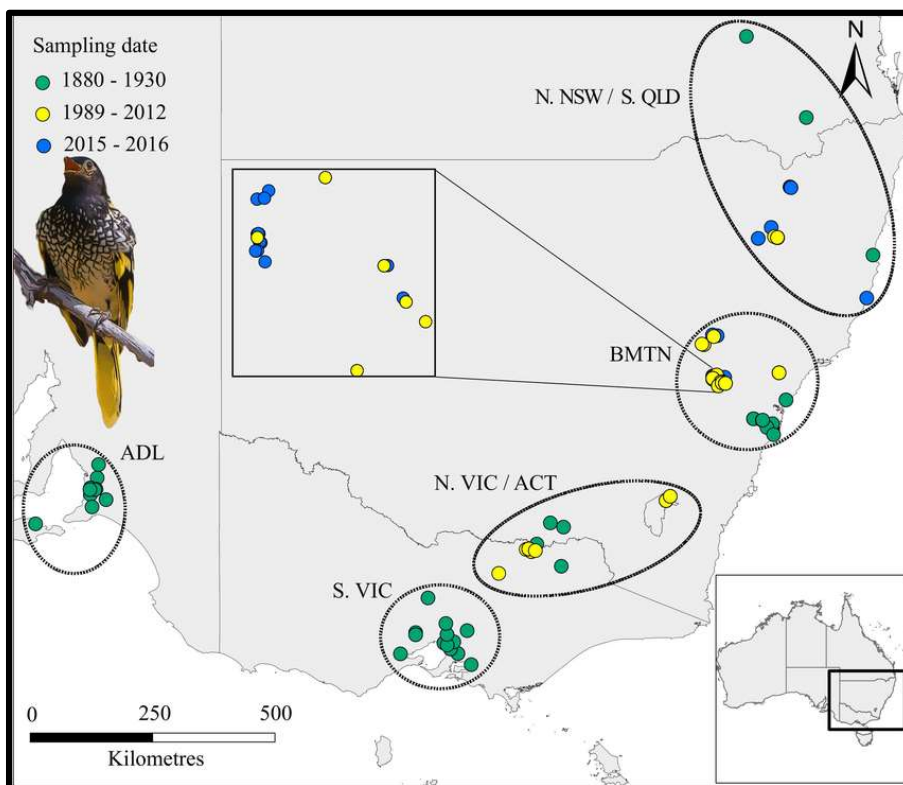
- Accordingly, so far, MoEFCC has sanctioned comes for conservation of one57 wetlands within the country associated free an quantity of regarding Rs 1,039 large integer as central share.

National arrange for Conservation of Aquatic Ecosystems (NPCA)

- NPCA may be a single conservation programme for each wetlands and lakes.
- It may be a centrally sponsored theme, presently being enforced by the Union Ministry of setting and Forests (MoEF).
- It was developed in 2015 by merging of the National Lake Conservation arrange and also the National Wetlands Conservation Programme.
- NPCA seeks to push higher synergism and avoid overlap of body functions.

Topic 57. REGENT HONEYEATER

Importance for Prelims: Environment



It has returned to lightweight that some specimens of the regent honeyeater (*Anthochaerophrygia*), are singing songs that life scientist Ross Crates — United Nations agency ascertained the development — delineated as “weird”.

- The regent honeyeater (*Anthochaerophrygia*) could be a critically vulnerable bird endemic to southeastern Australia.
- It is often thought-about a flagship species at intervals its vary, with the

efforts going into its conservation having positive effects on several different species that share its home ground.

- Recent genetic analysis suggests it's closely associated with the wattlebirds.

Flagship Species

- A flagship species could be a species selected to act as an envoy, icon or image for an outlined home ground, issue, campaign or environmental cause.
- Flagship species are species that have the power to capture the imagination of the general public and induce individuals to support conservation action and/or to present funds.
- These are fashionable, attractive species that function symbols and rallying points to stimulate conservation awareness and action

Topic 58. VACCINE WASTAGE

Importance for Prelims: Science & tech

A concern flagged by Prime Minister Narendra Modi, immunogen wastage is associate expected a part of any massive immunization drive.

- Vaccine wastage is directly coupled to immunogen usage, that is that the proportion of vaccines administered against vaccines issued to a vaccination web site.
- The immunogen wastage rate is outlined as one hundred minus the immunogen usage rate.
- And the wastage rate directly determines the “wastage factor” that must be established for every immunogen within the immunization schedule to accurately arrange immunogen desires.
- It is generally divided into 2 categories: wastage in sealed vials, and in opened vials.
- **Wastage in sealed vials** will occur because of six broad reasons: if the expiration date has been reached; if the immunogen is exposed to heat; if the immunogen has been frozen; breakage; missing inventory and theft; and whereas discarding unused vials came back from the vaccination web site.
- **Wastage in opened vials** will occur because of 5 broad reasons: whereas discarding remaining doses at the tip of the session; not having the ability to draw the amount of doses during a vial; immersion of opened vials within the water; suspected contamination; and poor immunogen administration practices.

Topic 59. MOSCOW SUMMIT

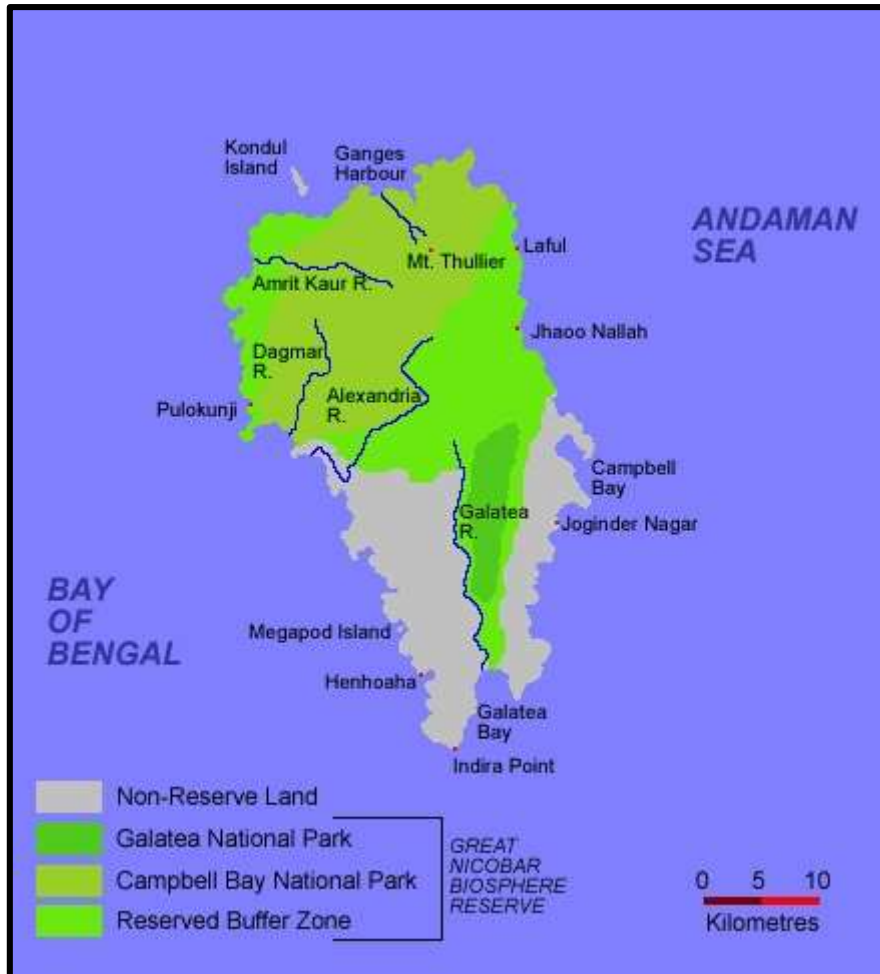
Importance for Prelims: International Relations

Afghan government, religious movement conform to accelerate peace talks when Moscow summit.

- Moscow hosted the international conference on Asian nation on Thursday, at which
- Russia, the u. s., China and Pakistan free a joint statement business on the Afghan sides to achieve a peace deal and curb violence, and on the religious movement to not launch any offensives within the spring and summer.
- The conference aimed to energize negotiations that are happening between the Afghan government and also the religious movement in Qatar's capital Doha, mostly stalled over government accusations that the insurgents have didn't halt violence.
- The Moscow conference was the primary time the u. s. had sent a senior representative to talks on Asian nation beneath a format launched by Russia in 2017.
- Washington united last year with the religious movement to withdraw its troops by First of May when nearly twenty years, and is trying to find support among regional powers for its plans for the social process.

Topic 60. GREAT NICOBAR

Importance for Prelims: Geography



NITI Aayog vision for nice Nicobar ignores social group, ecological issues. nice Nicobar cluster of Islands

- Geography: they're set around one,300 kilometre southeast of the Indian landmass, across the Bay of geographical {area|geographic area|geographical region|geographic region} and are home to the 2 most primitive tribes namely- Nicobarese & Shompens.
- Species found: it's a surround for various creatures as well as the enormous stealer crab, amegapode bird, the Macaca irus, and is additionally a nesting ground for marine turtle ocean turtles.
- Ecology: The island harbors a good spectrum of ecosystems from tropical

wet evergreen forests, mountain ranges, and coastal plains. These islands additionally host the expansion of coral reefs (the existence of that is vulnerable by the plastic trash & marine litter).

- The island includes the nice Nicobar region Reserve (GNBR) that has been declared collectively of the globe Network of region Reserves by UN agency.
- The reserve contains of the Galathea parkland and also the mythologist Bay parkland.
- The Sundalands that is one in all the four variety hotspots in Asian country includes the Nicobar cluster of Islands.

Topic 61. TSUNAMI

Importance for Prelims: Geography

Japan's meteorologic agency raised a tidal wave consultatory around Associate in Nursing hour when a 6.9-magnitude earthquake stricken off the country's northeastern coast on Saturday, inflicting no immediate harm or injuries.

Tsunamis

- These square measure a series of waves sometimes generated by movement of the ocean floor. These movements square measure caused by differing types of geology phenomena like earthquakes, landslides and volcanic eruptions.
- The word tidal wave may be a Japanese word, delineate by 2 characters: tsu, meaning, "harbor", and nami which means, "wave".
- The tidal wave waves behave terribly otherwise in problem than in shallow water as their speed is said to the water depth.
- They oftentimes occur within the Pacific, wherever dense oceanic plates slide below the lighter continental plates. once these plates fracture they supply a vertical movement of the seafloor that enables a fast and economical transfer of energy from the solid earth to the ocean.

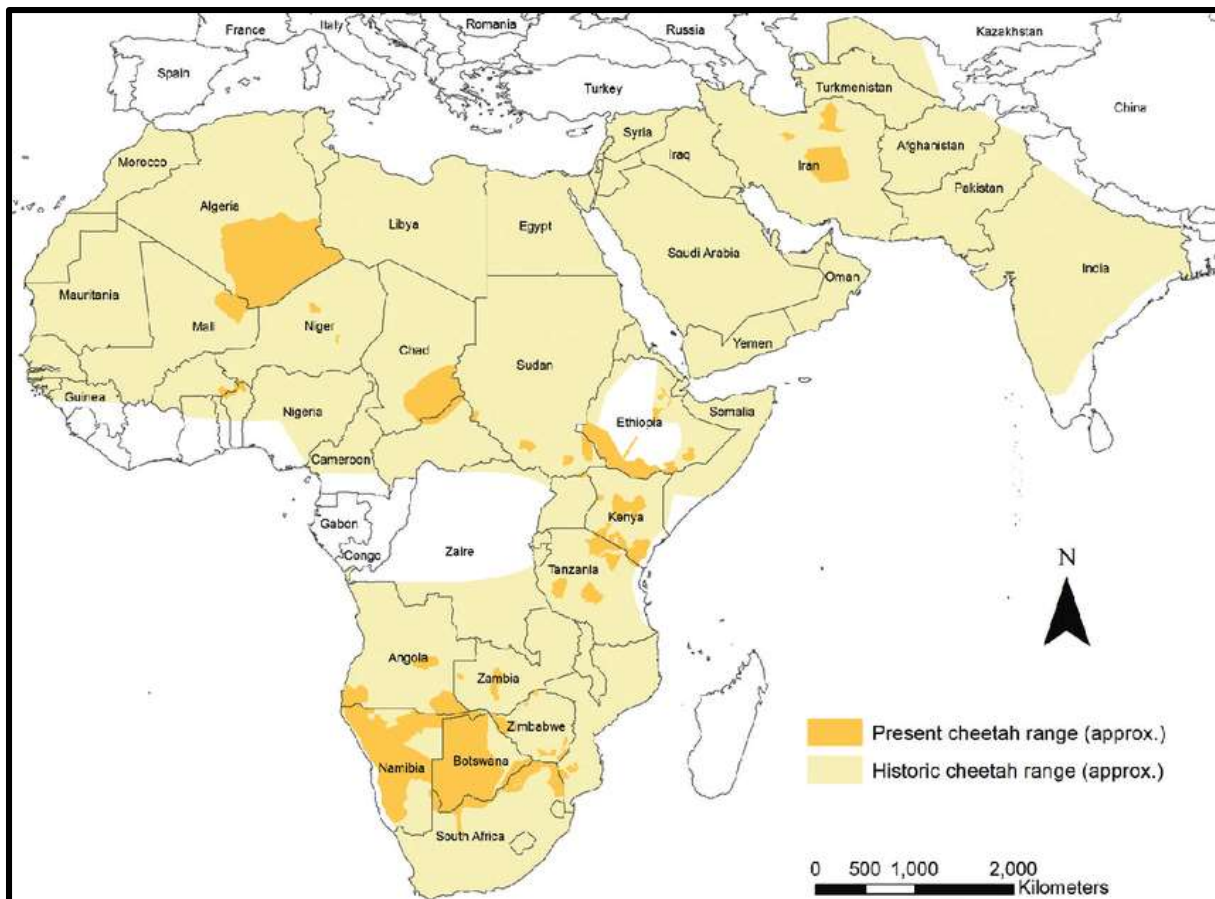
Mechanism of tidal wave Waves

- Megathrust earthquakes cause a explosive displacement during a bottom decent to cause the explosive raising of an outsized body of water.
- As the subducting plate plunges at a lower place the less dense plate, stresses buildup, the latched zone between the plates subside dead, and also the components of the oceanic crust is then uplift leading to the displacement of an outsized column of water vertically.

- The tidal wave on December twenty six, 2004, was caused when Associate in Nursing earthquake displaced the bottom off the coast of Sumatra, Indonesia.
- A marine discharge will generate Associate in Nursing impulsive force that displaces the water column and provides birth to a tidal wave.
- During a submarine landslide, the equilibrium lowland is altered by sediment moving on the ground of the ocean. gravitative forces then propagate a tidal wave.
- Most harmful tsunamis will be caused because of the autumn of extra-terrestrial objects on to the world.

Topic 62. CHEETAH

Importance for Prelims: Environment



70 years since huge cat's extinction, Republic of India prepares to welcome cheetahs from Africa.

- Nearly seventy years once the cat was declared domestically extinct or extirpated, Republic of India can receive its 1st batch of the massive cats from Africa by the tip of this year.
- Within a week's time, 2 skilled groups — one from South West Africa and also the alternative from Republic of South Africa — the 2 countries with the best cat populations within the world, can arrive to coach Indian forest officers and life specialists on handling, breeding, rehabilitation, medical treatment and conservation of the animals.
- This is that the 1st time within the world that an outsized carnivore are resettled from one continent to a different. **African Cheetah**
- IUCN standing – Vulnerable CITES standing – Appendix-I of the List. This List contains of migratory species that are assessed as being at risk of extinction throughout all or a big portion of their vary.
- Habitat – Around vi,500-7,000 African cheetahs gift within the wild.
- Physical Characteristics – larger in size as compared to Asiatic cat.

Asian Cheetah

- IUCN standing – Critically vulnerable.
- CITES – Appendix one of the list
- Habitat – 40-50 found solely in Persia.
- Physical Characteristics – Smaller and paler than the African cat. Has additional fur,a smaller head and a extended neck. typically have red eyes and that they have a additional catlike look.

Topic 63. PERIYAR

Importance for Prelims: History Contributions

- Erode Venkatappa Ramasamy was born in 1879 in Erode, then a district of the Coimbatore district of the Madras Presidency.
- He later came to be referred to as “Periyar”, that in Tamil suggests that ‘respected one’ or ‘elder’.
- He was conjointly popularly noted as Thanthai Periyar.
- He was a revered Indian social activist and politician United Nations agency started the self-regard
- Movement and also the organization DravidarKazhagam. he's conjointly called the ‘Father of contemporary Tamilnadu’.
- His works against the Bhraminical dominance, oppression of ladies in Tamil Nadu, caste prevalence square measure exemplary.
- Periyar promoted the principles of rationalism, self-regard, women’s rights and destruction of caste. He opposed the exploitation and social process of the individuals of South Republic of {india|Bharat|Asian country|Asian nation} and also the imposition of what he thought-about Indo-Aryan India
- In the year 1919, E.V. Ramasamy joined the Indian National Congress (INC) however resigned in 1925 once he started feeling that solely the interests of the few elite sections of society were being catered to by the party.
- In 1924, Periyar participated in a very non-violent Satyagraha in Vaikom in Kerala.
- From 1929 to 1932, he cosmopolitan to British Malaya, Europe, and Russia that had an excellent influence on him.
- In 1939, E.V. Ramasamy became the top of the Justice Party, modified its name to DravidarKazhagam in 1944.

- The party later split with one cluster semiconductor diode by C. N. Annadurai forming the • DravidaMunnetraKazhagam (DMK) in 1949.
- He advocated for a separate, freelance “Land of Dravidians” – Dravida Nadu whereas continued the self-regard Movement.

Topic 64. ISTANBUL CONVENTION

Importance for Prelims: International Organisations



Turkey equal landmark Istanbul Convention protective girls from violence.

Istanbul Convention

- It is additionally known as because the Council of Europe Convention on preventing and combating violence against girls and force.
- The pact is that the world's 1st binding instrument to forestall and tackle violence against girls.
- It is that the most comprehensive legal framework that exists to tackle violence against girls and ladies, covering force, rape, statutory offense, feminine sex organ injury (FGM), questionable honour-based violence, and made wedding.
- The Convention sets minimum standards for governments to fulfill once endeavour violence against girls.
- When a government ratifies the Convention, they're wrongfully sure to follow it.

Topic 65. FAGRADALS VOLCANO

Importance for Prelims: Geography



Long-dormant Iceland volcano erupts for 1st time in half-dozen,000 years.

- A long dormant volcano erupted close to Iceland's capital national capital on Friday, shooting volcanic rock high into the night sky once thousands

of little earthquakes in recent weeks. This was the area's 1st eruption in nearly 800 years.

- The eruption occurred close to Fagradalsfjall, a mountain on the Reykjanes solid ground, around thirty kilometre (19 miles) southwest of the capital.

Topic 66. WALR

Importance for Prelims: Economics

The weighted average loaning rate (WALR) on contemporary rupee loans sanctioned by regular industrial banks (SCBs) fell by 183 basis points (bps), of that 112 bits per second cut was accomplished since March 2020, the banking company of India (RBI) has aforementioned.

Weighted average loaning rate (WALR)

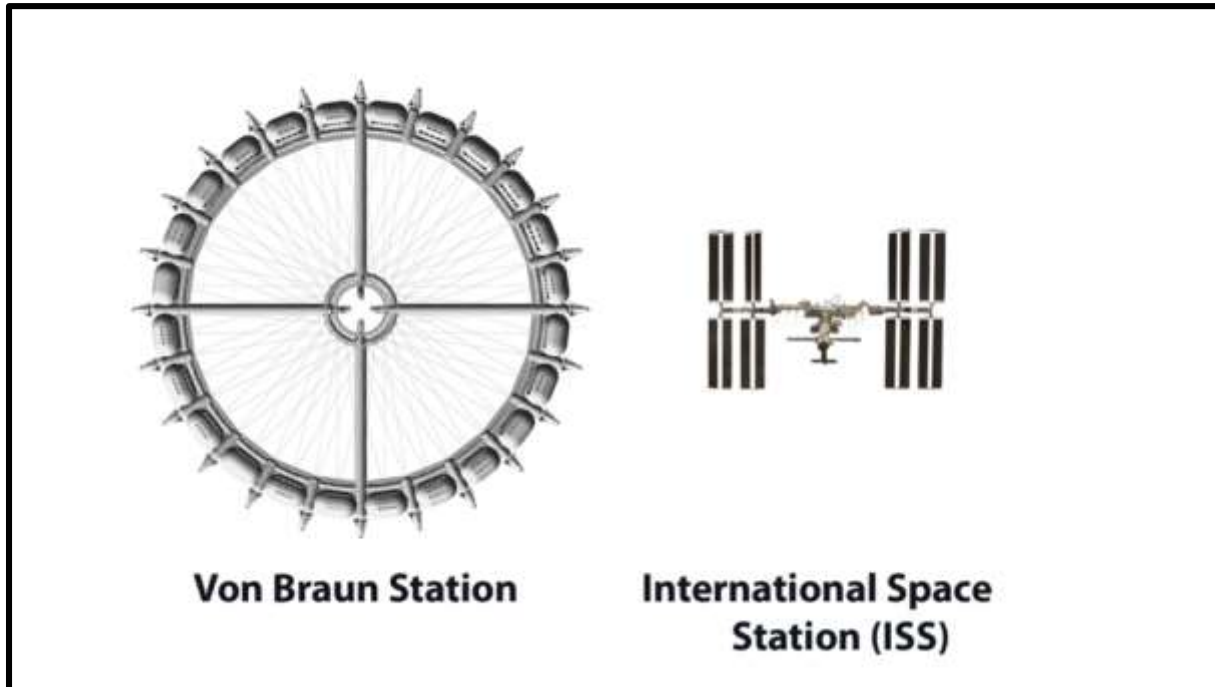
- The Weighted Average loaning Rate (WALR) of regular industrial banks, is that the rate of interest charged on all the outstanding loans of a bank.
- Unlike, the MCLR, that is lower as a result of it's for the latest recipient, the WALR is higher.

Marginal Cost of loaning Rate

- It could be a benchmark loaning rate for floating-rate loans that came into impact in 2016.
- This is that the minimum rate of interest at that industrial banks will lend.
- This rate relies on four components—the monetary value of funds, negative keep on account of money reserve magnitude relation, operative prices and tenor premium.
- MCLR is joined to the particular deposit rates. Hence, once deposit rates rise, it indicates the banks ar doubtless to hike MCLR and loaning rates ar set to travel up.
- The transmission of policy rate changes to the loaning rate of banks beneath the present MCLR framework has not been satisfactory.

Topic 67. VOYAGER STATION

Importance for Prelims: Science & tech



One huge discovery this year was the announcement to open the primary building in house, named traveller Station, in 2027.

- Orbital Assembly Corporation (OAC), the corporate behind the formidable project, recently disclosed new details regarding the resort, and therefore the pictures and videos have created a large buzz on-line.
- The one-of-its-kind luxury building named traveller Station are ready to accommodate four hundred folks and can supply new views of our planet for tourists and researchers.
- A journey to the location can not be restricted to only astronauts. Moving on the far side the plot of a sci-fi film, folks will currently set up a vacation outside the world as world's 1st house building can presently be a reality.
- And by 2027, house enthusiasts will virtually have associate degree out-

of-the-world expertise because the heavenly body resort are operational. However, it stresses that solely a specific few will have this life expertise, and a visit to house “cost up to \$25 million”.

- The conception of traveller Station was ideated in 2012 with the launch of the entranceway Foundation that established OAC in 2018 to grasp the dream of building the primary industrial building in house.

Topic 68. CLASSIC BAGH FESTIVAL

Importance for Prelims: Culture

Classic Bagh competition set to appeal music and nature lovers within the capital.

- The Classic Bagh competition, a logo of UK-India artistic collaboration, is set to appeal music and nature lovers within the capital nowadays Set at intervals the grounds of break up Nursery, Delhi, the Classic Bagh competition may be a distinctive and intimate competition.
- Designed as Associate in Nursing immersive and environmentally-conscious expertise, the free oneday competition (on from vi am until ten pm today) has been developed as a website conscientious response to the luscious inexperienced setting of break up Nursery and its broader location at intervals Nizamuddin, celebrating Hazrat Nizamuddin Auliya's vision of philosophical system and kindness, and therefore the heritage and contribution to Hindustani music of his favorite follower, father of Qawaali and Urdu literature, Hazrat swayer Khusrau.
- Open to guests of break up Nursery, it hopes to spotlight the importance of community and celebrate inclusiveness.
- Presented by Jodhpur RIFF and British Council, in association with the title Khan Trust for Culture, the competition supports Indian artistes and competition sector professionals compact by Covid-19.

Topic 69. HELIUM

Importance for Prelims: Science & tech

Every year, Asian nation imports inert gas price price,000 large integer from the U.S.

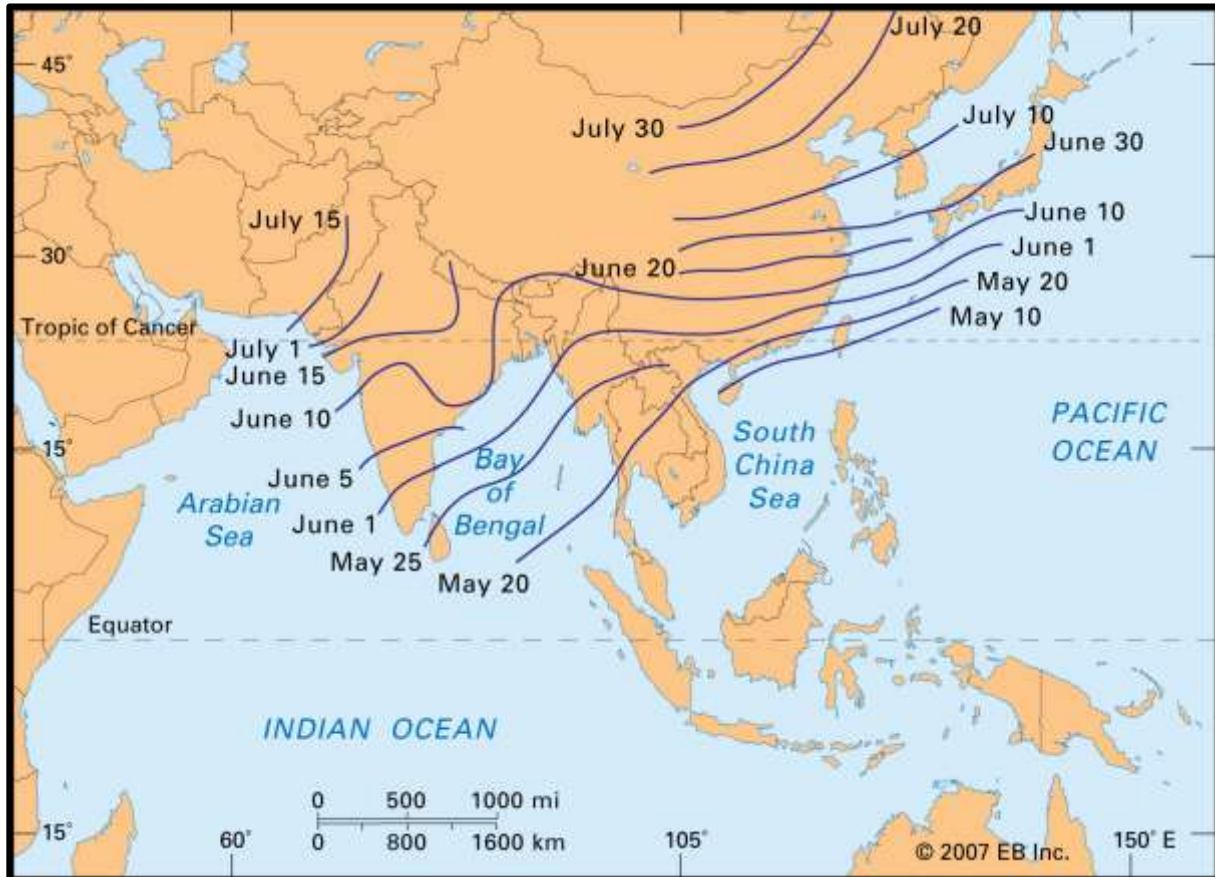
- Helium could be a colourless, odourless, insipid and non-toxic gas. It's less soluble in water than the other gas.
- It's the less reactive component and doesn't basically type chemical compounds.
- The density and consistency of inert gas vapour area unit terribly low.
- The caloric physical phenomenon and also the caloric content area unit exceptionally high. inert gas may be liquefied, however its condensation temperature is that the lowest among all the glorious substances.
- Helium is one in all the noble gases of O within the table. It's the second lightest component. the most inert gas supply within the world could be a series of fields of natural within the u. s.. Uses of inert gas
- The primary use of inert gas goes in altitudes analysis and meteoric balloons.
- It is employed as associate degree inert protecting gas in self-produced attachment.
- It is that the solely cooler capable of declining temperature less than 15K (434°F).
- Helium is additionally utilized in the assembly of semiconducting material crystals and element crystals.
- Since it's the flexibility to diffuse through solids abundant quicker than air, inert gas is employed industrially for pipeline leak detection.
- This component is additionally utilized in gas natural process as a carrier

gas.

- Owing to its low temperature, liquid inert gas has various applications in natural philosophy, resonance imaging (MRI), and superconducting magnets.

Topic 70. INDIAN MONSOON

Importance for Prelims: Geography



The evolution of the monsoonal climate in Republic of India continues to be debatable and not totally understood. tho' recent information indicates that the monsoon system we have a tendency to expertise currently dates back to regarding twenty five million years, it's still unclear however the climate was throughout its long voyage.

- The climate of Republic of India is represented because the 'monsoon' sort. In Asia, this sort of climate is found chiefly within the south and therefore the southeast.
- Out of a complete of four seasonal divisions of Republic of India, monsoon occupy two divisions, namely.

- The southwest monsoon season – downfall received from the southwest monsoons is seasonal in character, that happens between June and Sep.
- The retreating monsoon season – The months of Gregorian calendar month and November are noted for retreating monsoons. Onset of the South-West Monsoon
- The location of ITCZ shifts north and south of the equator with the apparent motion of the Sun.
- During the month of June, the sun shines vertically over the Tropic of Cancer and therefore the ITCZ shifts north.
- The southeast trade winds of the hemisphere cross the equator and begin processing in southwest to northeast direction underneath the influence of force.
- These winds collect wet as they travel over the nice and cozy Indian Ocean.
- In the month of July, the ITCZ shifts to 20° - 25° N latitude and is found within the Indo-Gangetic Plain and therefore the south-west monsoons blow from the Arabian Sea and therefore the Bay of geographic region. The ITCZ during this position is usually known as the Monsoon Trough.
- The shift within the position of the ITCZ is additionally associated with the development of the withdrawal of the westerly airstream from its position over the north Indian plain, south of the chain of mountains.
- The easterly airstream (Somali Jet) sets in on 15° N latitude solely once the western airstream has withdrawn itself from the region. This easterly airstream is control accountable for the burst of the monsoon in Republic of India.
- As these winds approach the land, their southwesterly direction is changed by the relief and thermal air mass over northwest Republic of India. The monsoon approaches the Indian dry land in 2 branches:

- The Arabian Sea branch – The monsoon winds originating over the Arabian Sea.
- The Bay of geographic region branch – The Arakan Hills on the coast of Burma deflect an enormous portion of this branch towards the Indian landmass. The monsoon, therefore, enters West Bengal and Asian country from south and southeast rather than from the south-westerly direction.
- Another development related to the monsoon is its tendency to possess ‘breaks’ in downfall. The monsoon rains occur just for many days at a time.
- They are interspersed with dry intervals. These breaks in monsoon are associated with the movement of the monsoon trough. **entomb Tropical Convergence Zone**
- The **entomb Tropical Convergence Zone (ITCZ,)** could be a broad trough of air mass in equatorial latitudes. this can be wherever the northeast and therefore the southeast trade winds converge.
- This convergence zone lies additional or less parallel to the equator however moves north or south with the apparent motion of the sun.

Retreating Monsoon Season

- The retreating southwest monsoon season is marked by clear skies and rise in temperature.
- The land continues to be damp. because of the conditions of hot temperature and humidness, the weather becomes rather oppressive. this can be usually referred to as the ‘October heat’.
- In the half of Gregorian calendar month, the mercury begins to fall quickly, significantly in northern Republic of India.
- The weather within the retreating monsoon is dry in north Republic of India however it's related to rain within the Japanese a part of the terra

firma. Here, Gregorian calendar month and November are the rainiest months of the year.

- The widespread rain during this season is related to the passage of cyclonic depressions that originate over the bay and manage to cross the Japanese coast of the southern terra firma. These tropical cyclones are terribly damaging.
- A bulk of the downfall of the Coromandel Coast springs from these depressions and cyclones.
- Unlike the remainder of the country, that receives rain within the southwest monsoon season between June and Sep, the northeast monsoon is crucial for farming and water security within the south.

Topic 71. INSIGHTS MISSION

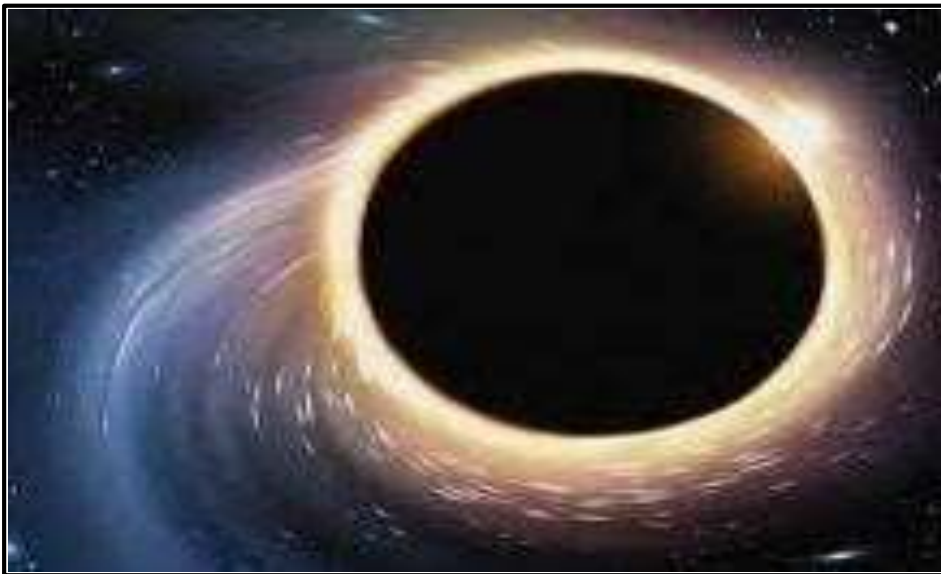
Importance for Prelims: Science & tech

NASA's Insight satellite that is found on Mars has created Associate in Nursing estimate of the dimensions of the Martian core. It finds that Mars's core is regarding 0.5 the dimensions of Earth's core and measures between one,810 and 1,860 kilometres.

- NASA's Interior Exploration mistreatment seismal Investigations, geophysical science and warmth Transport (InSight) lander touched down on Mars at the tip of 2018.
- It may be a 2 year mission that may study the deep interior of Mars to find out however all celestial bodies with rocky surfaces, together with Earth and therefore the Moon, formed.
- The InSight mission is a component of NASA's Discovery Program (1992).
- InSight is that the 1st mission dedicated to trying deep to a lower place the Martian surface.
- Among its science tools ar a seismometer for sleuthing quakes, sensors for gauging wind and gas pressure, a gaussmeter, and a heat flow probe designed to require the planet's temperature.
- It is being supported by variety of European partners, that embody
- France's Centre National d'Études Spatiales (CNES), the German part Center (DLR) and therefore the uk area Agency (UKSA).

Topic 72. BLACK HOLE

Importance for Prelims: Science & tech



Until now, the amount of part mergers detected by LIGO, VIRGO and KAGRA detectors is minuscule compared with the amount of mergers truly happening within the sky.

- A part is created once stars collapse and might be outlined as an area within the universe with associate speed thus robust that even light-weight cannot escape it.
- Escape rate is that the speed at that associate object should travel override a planet or associate object's gravity.
- Since light-weight cannot get out, black holes area unit invisible and might solely be half-tracked with the assistance of an area telescope or different special tools.

- And the explanation light-weight cannot escape is especially that the gravity within a part is incredibly robust as a results of a great deal of matter being squeezed into atiny low house.
- It acts like a perfect black body reflective no light-weight. It continues to grow, by engrossing mass from its surroundings. part merger
- Gravitational waves, postulated by Einstein one hundred years agone however discovered solely in 2015 don't manufacture any sound on their own.
- These area unit simply ripples created within the material of coordinate system by moving celestial objects similar to a moving boat produces ripples in water.
- But once born-again into audio signals, these will manufacture signature sounds which will reveal the origin of the gravitative waves.The gravitative wave detected on September fourteen, 2015, is currently famed to possess been created by the merger of 2 black holes concerning one.3 billion years agone.
- Scientists already knew the type of sound that gravitative waves emanating from such events were possible to provide.
- As 2 such dense and big objects, black holes or nucleon stars, area unit near to merge, they begin rotating around one another at virtually the speed of sunshine. The merger takes place inside a fraction of a second.
- The gravitative waves discharged during this last bit, once born-again into audio signals, manufacture sound that's inside perceptible vary of citizenry.

LIGO

- The LIGO Scientific Collaboration (LSC) could be a cluster of scientists centered on the direct detection of gravitative waves, exploitation them to

explore the elemental physics of gravity, and developing the rising field of gravitative wave science as a tool of astronomical discovery.

- The LSC works toward this goal through analysis on, and development of techniques for, gravitative wave detection; and also the development, empowerment and exploitation of gravitative wave detectors.
- The project operates 3 gravitational-wave (GW) detectors. 2 area unit at Hanford, Washington, north-western North American country, and one is at American Revolutionary leader in Pelican State, south-eastern North American country.
- The planned LIGO Asian nation|Bharat|Asian country|Asian nation} project aims to maneuver one advanced LIGO detector from Hanford to India.

VIRGO

- Virgo could be a big optical maser measuring instrument designed to discover gravitative waves.
- Virgo has been DEsigned and designed by a collaboration of the French Centre National de la RechercheScientifique (CNRS) and also the Italian
- IstitutoNazionale di FisicaNucleare (INFN)
- It is currently operated and improved in Cascina, atiny low city close to metropolis on the location of the ecu gravitative Observatory (EGO), by a world collaboration of scientists from France, Italy, European country, Poland, and Republic of Hungary.

KAGRA

- The Kamioka gravitative Wave Detector (KAGRA), erstwhile the massive Scale refrigerant gravitative Wave Telescope (LCGT), could be a project of the gravitative wave studies cluster at the Institute for ionizing

radiation analysis (ICRR) of the University of Yedo.

- It is Asia's 1st gravitative wave observatory, the primary within the world designed underground, and also the 1st whose detector uses refrigerant mirrors.

Topic 73. ODISSI DANCE

Importance for Prelims: Culture



Noted odissi dancer Laxmipriya Mohapatra dies at eighty six ; Naveen patnaik condoles. Odissi dance is one among the classical dances of Asian country.

- It is endemic to Orissa, japanese Asian country, and follows the principles of the Natyashastra.

Evolution

- The dance has its origin within the temples.
- The carvings found at the Udayagiri religious residence denote that Odissi was patronized as early because the 2d Century BCE and also the trend continued intense till regarding the sixteenth Century AD.
- After extant the troubled years from sixteenth century AD until independence, Odissi underwent a renaissance of types that helped it

become the worldwide development it's nowadays.

- The musical genre and dance kind of Odisha was prefixed with “Odissi” by noted Odia author KabichandraKalicharanPattanayak, World Health Organization was the centre of the cultural revival of Odisha post-independence, to retain its distinct identity.

Dance Techniques

- Odissi dance type will be dampened to the movement of the top, bust and body and also the incidental gestures and expressions.
- The techniques of movement square measure engineered round the 2 basic postures of the Chowk and also the Tribhanga. The chowk may be a position imitating a sq. – a awfully masculine stance with the burden of the body equally balanced. The tribhanga may be a terribly female stance wherever the body is deflected at the neck, body and also the knees.
- Odissi dance deals mostly with the love theme of Radha and Krishna.

Topic 74. KAMBALA

Importance for Prelims: Culture



Srinivasa Gowda sets new record in Kambala athletics.

Kambala could be an ancient buffalo race in paddy fields crammed with slush and dust that usually takes place in coastal Karnataka (Udupi and Dakshina

Kannada) from November to March.

- Traditionally, it's sponsored by native Tuluva landlords and households within the coastal districts. Tuluva individuals are a unit associated with a degree of grouping native to Southern India. They're native speakers of the Tulu language.
- During the race, the racers try and bring the buffaloes in check by holding their reins tight and whipping them.
- In its ancient kind, Kambala was non-competitive and buffalo pairs raced one when another in paddy fields.
- It was conjointly ascertained as thanksgiving to gods for shielding the animals from diseases.

Topic 75. RIGHT TO COUNSEL IN CUSTODY

Importance for Prelims: Polity

National Investigation Agency (NIA) told a special court in Bombay that the arrested assistant police inspector Sachin Waze, currently suspended from Bombay Police, wasn't cooperating within the probe against him and was demand on his professional person being gift throughout interrogation

- Right to counsel suggests that a litigator encompasses a right to possess the help of counsel (i.e., lawyers) and, if the litigator cannot afford a professional person, needs that the govt appoint one or pay the defendant's legal expenses.
- The right to counsel is usually considered a constituent of the correct to a good trial

In India

- Article twenty two of the Constitution of Bharat states that “No one that is inactive shall be detained in custody while not being informed , as shortly as is also, of the grounds for such arrest nor shall he be denied the correct to consult, and to be defended by, a legal professional person of his selection.”
- Section 41D of the Criminal Procedure Code (CrPC) states that associate

defendant is entitled to “meet associate advocate of his selection throughout interrogation, tho' not throughout interrogation”

- In 2011, the Supreme Court of Bharat dominated that a court couldn't decide a case while not a professional person gift for the litigator, and mandated that a court should appoint a professional person once the litigator cannot afford one.
- Public legal help is provided through the National Legal Services Authority and state-level legal services organizations.
- Courts appoint legal aid lawyers in each civil and criminal case.

Topic 76. INDO ISRAEL VACCINE

Importance for Prelims: Science & tech

India's Premas Biotech, Israel's Oramed together develop oral vaccinum for COVID-19.

- An Indian-Israeli collaboration has reportedly developed associate degree oral vaccinum, one that may be enclosed sort of a pill rather than being injected as is that the norm, for COVID-19.
- A preliminary take a look at in animals showed that the vaccinum made the expected antibodies that confer protection.
- However the findings haven't been reportable in an exceedingly scientific publication nonetheless and can't be severally verified.
- The aborning COVID-19 vaccinum candidate could be a “**protein-based VLP (Virus Like Particle) vaccinum candidate**” that generates “triple protection” against the SARS CoV-2 virus, that is, it's ready to target the spike, membrane, and envelope proteins of the coronavirus.
- These 3 proteins ar important to the structure of the coronavirus and provides it kind yet because the ability to duplicate within the body.

Topic 77. IAEA

Importance for Prelims: International Organisations

A new initiative by IAEA might facilitate to seek out another to JCPOA within the modified circumstances.

About IAEA:

- The International nuclear energy Agency (IAEA), AN administrative body is that the world's central intergovernmental forum for scientific and technical cooperation within the nuclear field.
- It works for the safe, secure and peaceful uses of nuclear science and technology, tributary to international peace and security and therefore the United

Nations' property Development Goals.

- It was shaped in 1957 as a results of Conference on the Statute of the International nuclear energy Agency command at the world organization headquarters. ab initio it had been referred to as 'Atoms for peace'.
- It is headquartered in capital of Austria, Austria.
- It has 172 members (Comoros being most up-to-date member).

- Though it's and freelance international agencies, yet, it reports annually to UNGA.
- It together with its Director General won Nobel Peace prize in 2005.
- The IAEA's political bodies take the Agency's programmes and budgets.
- They comprise the final Conference of all Member States and therefore the 35member Board of Governors.

Funding of IAEA:

- The IAEA carries out its add 2 main areas: the regular programme and therefore the Technical Cooperation programme. These 2 programmes area unit supported from separate funds.
- They area unit in addition supported by extra-budgetary contributions from Member States and non-member states donors. The IAEA's budget is approved annually by the IAEA General Conference.

Topic 78. RED SANDERS

Importance for Prelims: Environment

The Forest Department has ready a schedule for the world e-auction of the appropriated tree logs.

About Red Sanders:

- Pterocarpussantalinus or tree is a virus tree of South Asian nation
- They are found in Tropical Dry Deciduous forest of the Palakonda and Seshachalam hill ranges of province and additionally found in province and Karnataka.
- Red Sanders sometimes grow within the rocky, degraded and fallow lands with Red Soil and hot and dry climate.
- IUCN has placed it beneath the class of species within the Red List thanks to the dwindling population thanks to extralegal felling and importing.
- Its export is illegal in Asian nation in accordance with the CITES and Life Protection Act 1972.
- It is employed for varied functions like immunity drugs, furniture, radiation absorbent, device, food dyes and spices, written material and

Siddha drugs, ornamental and decorative functions etc.

Topic 79. WHITSUN REEF

Importance for Prelims: Environment

The Philippines government has claimed that around 220 Chinese boats are noticed at a reef within the South China ocean waters controlled by Manila.

- It urged China to recall the boats voice communication the presence of the vessels desecrated Manila's maritime rights by trespassing into the Philippines' sovereign territory.
- The boats are believed to be manned by Chinese maritime militia personnel.
- The boats were noticed on March seven at the Whitsun Reef, that Manila calls the full general Felipe Reef. **Whitsun Reef**
- small indefinite amount sun Reef (also referred to as Whit total Reef, Whitson Reef, in Mandarin Chinese) could be a reef at the northeast extreme limit of the Union Banks within the Spratly Islands of the South **China ocean.**
- It is that the largest reef of the Union Banks.