IASTODAY MONTHLY MAGAZINE

DATE WISE COMPILED

HINDU NOTES + PIB MAGAZINE

APRIL 2017
UPSC CURRENT AFFAIRS

FULL COVERAGE of monthly updates

INDIAS FIRST DEDICATED MAGAZINE
BASED ON UPSC SYLLABUS.

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Liquor ban on highway

- Supreme court in historic judgment told that liquor to be banned on highway up to 500 meter periphery.
- This is breach of right to trade but this is override by the public health as large concern.
- This ban implement on hotel to small parlour to any bar because indian constitution also stated about equality that earlier breach by kerala government which give exemption to 5 star hotel from state wide liquor ban.
- This step will decrease road accident and fatality cause due to it.

Cow slaughter ban trend in india

- One by one state banning cow or milch animal slaughter by making law in assembly such one law added recently by Gujarat government with tight provision.
• Provision regarding cow slaughter mentioned in directive principle of state policy and its one of the Gandhian principle

**UDAN[PIB]**

• Ude desh ka aam nagrik is the regional air connectivity scheme in which countries minor airport will be connected

• Government will provide viability gap funding means deficit in funding in which hour base 2500/- fare decided

• This viability gap funding will be provided from international or major flight cess

• This scheme specially join city of tourism destination which increase potential to tourism
Panama paper leak

• Panama is island country situated in central America which is said tax heaven like Mauritius
• Panama is also heaven for the investment company that only work on paper for round tripping of money
• Paper leak says about major corporate house involved in it with major leader of the world
• IT department now checking indian name to investigate more and also taken step like implementation of the GAAR

Infrastructure deficit

• India has infrastructure deficit that can not be fulfilled in maximum two decade
• This infrastructure facility make trade and service movement more vibrant and mobile

Without infrastructure countries economic potential can not be realized
Slow down in core sector

- Core sector useful in calculation of the wholesale price index include 8 major industry that have great impact on economy
- This industry include coal, electricity, fertilizer, steel, manufacturing etc. this sector slow down may be due to demonetization that also lead to tight money policy and lower investment in construction industry
- Another reason may be world economic situation in which protectionist policy also making way that will decrease demand of indian good in international market
G.S.-01

**Ganga as human being**

- After New Zealand given status of the human kind or artificial for the better management.
- This status will give person responsibility who harm river and will be punished.
- Now Ganga and its river system now got human status so also have basic right like human.
- Ganga river system also part of the human culture but due to overpressure has affected badly; this is the irony of the Indian culture.

G.S.-02

**Interpol [Pib]**

- Interpol is the international police organization working for the better coordination and partnership between police of different countries.
- Interpol also work in terror fighting with cooperation of various police in mass data analysis.


**Water crisis and wildlife**

- Over exploitation of the water resource or abuse/misuse of it led to hydrological draught like situation every year
- Government have to arrange train like jaldut to provide water to people but what about our precious wild life
- River and lake also drying rapidly due to high temperature and ground water extraction
- Life without water not possible so wild life animal migrate to other area and this lead to threat of conflict between man and animal
- Government should adopt model for better water availability in forest with keeping technology like solar powered well etc.
- Gujarat government have appreciable model in this matter because government provide artificial lake facility in forest and fill up it daily

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**G.S.-03**
Autism disease

- Today is the world autism day. Autism is the symptom or disorder related to skill and disability.
- People with autism behave repetitive, not socially active, low school performance and inactive in creative activity.

Manufactured sand

- Government have implemented tight law on sand extraction from river bed due to ecological reason.
- So builder now turned to manufactured sand popularly known as M-sand which is manually made from stone through crusher method.
- By this process production increase 6 fold but
comparatively demand also rising because of boom period in construction industry

- This manufactured sand also decrease impact on ecology of river because river bed sand has maximum productivity due to ecological niche there.

**Particulate matter In the air [just revise ]**

Air Quality Code:  ■ Poor ■ Moderate ■ Good

SO₂: Sulphur Dioxide. Short-term exposure can harm the respiratory system, making breathing difficult. It can affect visibility by reacting with other air particles to form haze and stain culturally important objects such as statues and monuments.

NO₂: Nitrogen Dioxide. Aggravates respiratory illness, causes haze to form by reacting with other air particles, causes acid rain, pollutes coastal waters.

CO: Carbon monoxide. High concentration in air reduces oxygen supply to critical organs like the heart and brain. At very high levels, it can cause dizziness, confusion, unconsciousness and even death.

PM2.5 & PM10: Particulate matter pollution can cause irritation of the eyes, nose and throat, coughing, chest tightness and shortness of breath, reduced lung function, irregular heartbeat, asthma attacks, heart attacks and premature death in people with heart or lung disease (Individual pollutant data for various cities are averages for the previous day)

**Environment special**
Forest fire

- Forest fire incident occurring due to lack of the biological burden that means when humidity of the forest decreasing then lead to forest fire
- Forest fire also occurring due to imbalance in the plantation due to colonial and economic practices
- Carrying capacity is the most important concept related to forest fire principle that related to maximum burden that forest can bear
Draught and suicide: the story of Indian farmer

- There are lack of clear conceptuality about draught there many kind og draught like when rain is not as per normal estimate of the metrological department than this called metrological draught.
- When due to imbalance in water cycle there are severe shortage of water that called hydrological draught.
- Farmer have no early draught warning system > capitalism make them to think only for today not sustainable way > they over use of misuse water resources > hydrological draught.
- Pollution > climate change > metrological draught > no crops > high investment > high interest rate from informal lender because bank have tight rule for farmer than MALIYA ?
- High interest rate with tight collection method >
suicide is ultimate option > now what will be 
solution > there are many solution of word war but
real one is that what can do in field
• **Heat wave and its impact**
  - According to Indian metrological department 
    heat wave declared when there is rise of temperature 
    up to 6 degree or cross 40 C mark
  - Issue of heat wave and frequency will also increase 
    as time pass that will impact majorly on weather 
    and human health
  - Ocean heating cause Indian ocean negative situation 
    while El Niño also become problem because it is now 
    world phenomena
  - Human health effect ranging from heat stroke to 
    dehydration and rise in temperature will lead to 
    effect on blood viscosity and thrombosis
  - This problem demand short term and long term 
    solution but now we need to take curative step like 
    better forecasting of heat wave, public health 
    management guidance etc.
Kashmiri youth to choose between tourism and terrorism

- Prime minister Narendra Modi opened all weather country longest tunnel in Jammu and Kashmir
- This tunnel will boost connectivity with the hinterland area and facilitate tourism
- Kashmir called heaven on the land with its unique ecological beauty
- Youth should choose tourism to make Kashmir vibrant tourism hub from terrorism

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**The longest tunnel**

- Built at ₹3.720 crore, the Chenani-Nashri tunnel will reduce distance to 9.2 km from 48 km in the travel between Jammu and Srinagar
- 1,500 engineers, geologists, skilled workers and labourers worked on the project
- 92.7 FM is mandatory for vehicles where emergency messages will be relayed
- 6,000 LED multiple-colour lights will be used to break monotony
- 118 CCTVs one every 75 metres
- At 50 km/hr speed, the tunnel is a 12 to 15 minutes drive
- GSM phones will work inside the tunnel, 118 SOS boxes set up, one every 150 metres on both sides
- Smoke and heat dampeners will react quickly in fire incidents
- ₹27 lakhs fuel savings per day
- All-weather tunnel comprises two tubes and 29 cross-passages, with special lane for exigencies
- Air quality monitors every 12 metres will keep a check on carbon dioxide and carbon monoxide, guiding exhaust fans and air purification
- Automated Integrated Traffic Control System will monitor traffic round-the-clock and overheat vehicle will be made to stop for cooling off

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Vehicle distance to be maintained at three metres
Counterfeiting of currency note

- Government recently announced demonetization to counter black money, stop terror financing, and stop counterfeiting or fake currency issue
- New note issued with 17 new security check but this note also fail test as 11 security check can be copied

Countering fakes
Most of the developed countries change security features of their currency notes every 3-4 years. The new decision is aimed at checking counterfeiting

- At least 13 of the 17 security features in the new ₹2,000 notes have been fraudulently copied, according to Home Ministry officials.

What's been replicated
- Watermark
- Ashoka Pillar emblem
- ₹2000 on the left

- The guarantee clause with the Governor's sign
- Denomination number in Devanagari on the front
- 'Chandravaya' and the 'Swachh Bharat' logo
- The year of printing

Fake notes worth ₹66 lakh were detected by RBI and States since the new notes were introduced

Now to rewrite growth story of India

- After demonetization now its affect going to be settled everywhere now its time to re think about growth of indian economy
- Herold model describe growth equation that was also used in our 1st five year plan which state for investment and capital efficiency equation
- Incremental capital output ratio [ ICOR] is the
amount needed for the production of one unit

• The concept of the policy paralysis means policy not working on targeted group or policy being used for the rich group rather than disadvantaged

• After demonetization biggest problem or hurdle against policy make is to revise faith of people because of instability prevails

☞ Paris agreement

• It is climate change deal signed as conference of party 21 to make this world more sustainable and livable

• When 55 % emitter signed it come into existence and implementation

• This also include concept of the intended nationally determined contribution [INDC] pledge that every country will take voluntarily

• Paris agreement facing great risk from the trump policy of first america and great america by side lining world burning problem of the climate change and pollution
G.S.-01

• **Problem of Rohingya**
  
  • Rohingya is the Islamic group of community which lives mainly in rakhine state of the Myanmar
  
  • Myanmar being Buddhist dominated country adopt policy to discrimination of the this group and exploitation of this group
  
  • Buddha given principle of the non violence and tolerance but what are going on by the follower make it irony of community
  
  • Many illegal migrant staying in india so interest of india also involved

G.S.-02

_genre:Racial tendency in India_

• India is the land of diversity and people from various race that make society more complex but ritual of this country make it cosmopolitan nation with great idea of the mahatma Gandhi

• Racial tendency in india can be seen in two factor wise internal and extra in which internally indian
people always have conflict with north east people or southern – northern divide also working in this sector

• Recently incident of person from Africa being attacked in india that’s not good for our culture of acceptances

• Government should work toward attitude change of the person because this lead to cosmopolitan society with inclusive world

**Separation of judiciary and legislature**

• Under indian constitution article 50 in directive principle of state policy stated for the separation of government function of judiciary and legislature

• This separation make government more transparent and responsible because now both of they are responsible to each other

• Mutual joining will boil government as judiciary will fail to guard human right and constitution

• But water tight separation make it case of
deadlocked government rather so cooperation make it more toward good governance

- Now problem of separation become major hurdle for the government and judiciary to function that can be solved only with cooperation and that is also good for the country

G.S.-03

**NPA problem in banks**

- Bad loan making bad bank this goes to vicious cycle by creating mounting debt without performing
- First world boom provide bank to have expansionary monetary policy > more loan > global slow down > bank not able to recollect loan
- Why public bank becoming major victim of the bad loan because of there are principle working in it is crony capitalism
- Crony capitalism means capital economic system in which relatives of the powerful person or influential person getting more loan
• Bank have no transparency or autonomy to work with freedom > technical updation or development also not adopted in public bank
• NPA problem basic solution should be to have empowerment of management and strengthening
• The best solution to a bad loan problem is to simply grow your way out of it. This can happen in two ways. One, banks keep financing projects that are not making repayments in full and would qualify as NPAs. They do so in the hope that, once growth revives, cash lows in the projects will improve. Two, banks grow their loan portfolio at a brisk rate. As the denominator in the ratio of bad loans to total loans grows, the bad loan problem automatically diminishes in significance.
• Serious policy errors have compounded the problem. The big policy error was the belief among policymakers that bad governance, bad management and even corruption at PSBs were primarily responsible for the problem. A committee
appointed by the RBI and headed by P.J. Nayak argued as much in a report it submitted in late 2014. The committee seemed to think that majority government ownership of PSBs was the root cause of the bad loan problem as it meant political and bureaucratic interference with commercial decisions.

- Realization that the bad loan problem is not the result of some special villainy at PSBs but a matter of factors extraneous to management has finally dawned, if somewhat late in the day. The initiative has moved away from the BBB and back to the Finance Ministry and the RBI where it rightly belongs.

- The government must provide adequate capital to the banks to cover write-offs and also facilitate fresh loan growth. It must end the delays in appointing Chairmen and Managing Directors of various PSBs. It must also revamp the boards of PSBs by bringing in independent directors of high quality.

- The solutions should have been clear enough long
back. It is the misplaced condemnation of PSBs that has held up resolution of the bad loan problem. Doing away with majority ownership of government, mergers, creation of a bad bank — all these are nonstarters. The way forward is to empower management and strengthen governance at PSBs.

**Barak missile**

- Barak is the surface to air missile and defense acquisition council headed by the defense minister given permission to buy it
- Short range surface to air missile developed by the Israel will attached with INS vikramditya
- India also want to acquire unmanned aerial vehicle technology for the strategic border management, disaster relief etc. works
**BS III ban hit automobile market in india**

- Recently court ordered to transfer from BS iii to BS IV model in which fuel optimum use can be done
- This standard adopted on the model of European standard and this new standard make automobile industry in vulnerable state
- Old inventory has to be sent back to manufacturing and new design to be adopted that take time and this will create break in supply chain management
Vikramashila University Monuments and Museum [PIB]

- Vikramashila university was established by the palace ruler of the Bengal region.
- Vikramashila University which is being established on the site of this ancient centre of higher learning.
- This reflects an era where a rich culture of learning flourished in the region. It is heartening to find that after meticulous excavations carried out over the last few decades, it has been decided to revive this seat of learning. He also complimented the Archaeological Survey of India in this regard.
- India in ancient times had many great centers of learning Universities such as Vikramashila, Nalanda and Taxila etc. attracted students, teachers and researchers from all over the world.
• **PM Ujjwala Yojana {PIB}**

  - Prime minister start special scheme for the poor women and provide free gas connection to the BPL women
  - This initiative will decrease suffering of the poor and rural women specially this initiative also save forest as now women not depend on forest for the fire wood
  - Gas connection also decrease the level of the internal air pollution level in the house and also decrease cases of inhalation problem in women

• **PMGSY {PIB}**

  - Pradhan mantri gram sadak yojna is the benchmark program of the central government in the direction of the rural infrastructure enhancement and development
  - This scheme has provision of the providing all weather road connection to the every village with population of 1000 in plain area and 500 in
mountain and tribal are which are now bring to half by recent provision

- **Dalai lama visit to north east and its connection to the indo china relation**

- Dalai lama is the religious post of Buddhist head not persona name person who take this post called dalai lama
- Dalai lama is now in refugee status of the india after china forcefully acquired Tibet and dalai lama come to india
- Dharmshala is official resident of dalai lama which are now going to become second capital of state himachal Pradesh
- When dalai lama visit border area of the china it specially arunachal area that also affect one china policy of the china under communist government
**Liquor ban on the highway**

- Supreme court prohibited liquor on the highway up to distant of the 500 meter for the social welfare and stop accident from drunken situation
- This order show the judicial overreach or on the other hand lack of intent from legislative or executive for crisis of accident
- While liquor seller argued on the base of article 19 stated about freedom of trade and profession while supreme court on the base of directive principle given this order
- In the case of the Minerva mills and many other case supreme court argued that directive principle and fundamental right are the two wheel of democratic chariot
- Fundamental right is the limit on the state power while they are positive and negative in the sense of limit on state power and some right also avail against action of individual like untouchability
- Directive principle in non justifiable in nature but
Democracy and right to recall

- Democracy have to type of system namely direct democracy exist in Scandinavian country in which every decision of government bring into vote of general public called referendum.
- Recall means person have right to vote to suspend their representative in democracy because if person have right to vote to elect and why not recall
- Fix tenure with lack of responsibility make democracy more worsened than good governance
- Right to recall should be made part of the indian democracy
- “There can be no doubt, that if power is granted to a body of men, called Representatives, they like any other men will use their power not for the advantage of the community but for their own advantage, if they can.” — James Mill
• **GST and problem in implementation**

- GST will be implemented as one tax one nation theory as indirect tax from July 2017
- This GST totally work on the basis of the network and digital platform from which petroleum and alcohol being outside of it
- GST digital platform prepared by the digital firm named good and service tax network [GSTN] one of the private firm owned by HDFC and ICICI
- Now question come about using of audit data of the GST which denied by the GSTN because GSTN is the private company so CAG have no right to demand data on it
- While on the other hand under new company act state that strategic ownership can come under definition of state under article 12
- Strategic partnership include ownership of government 26% of the share so conclusion will be that CAG should be given data of tax because
creation GST in place of service tax, excise duty, VAT and custom is to bring openness in tax administration

**Olive ridley turtle**

- Olive ridley turtle one of the marine ridley turtle species found in indo pacific region and come to indian east coast for laying egg and mass hatching
- Why they are not coming to west coast because west coast have no proper sand with river bed because that sand have lower salt content and can not affect shell of the egg and other reason could be western coast is slight narrow than eastern coast
- This turtle mostly lay their egg on northern coast and southern of gahirmatha area that is geographically called uttar sarkar coast of india
- Mass hatching done on the coast of Orissa and Andhra Pradesh and recently rain caused slight delay in hatching due to decrease in sand temperature
• Rain at the peak time of the hatching will cause block in oxygen supply and lead to premature death of the young turtle
• Forest department also try to lay down mosquito net to avoid landward movement of young turtle because they attract toward light from coastal area

• **New species of the crab found in Kerala**
• Scientist found new species of the tree dwelling crab from western ghats area of the kerala
• The new species named *Kani maranjandu*, after the Kani tribe in Kerala, are substantially different from other congener.
• It is first sighted by the kani tribe from the kerala and this crab have unique characteristics of the hard upper shell
• Western ghats is among the major biodiversity hotspot of the world
**G.S.-01**

- **Taj mahal and pollution impact on its structure**
  - Taj mahal was built by the mughal emperor shahjahan and now its wonders of the world
  - Taj mahal being built from the white marble rock called sangemarmar now changing its color to yellow like shade
  - This may be caused by the chemical reaction from air pollution caused by the acid rain or industrialization in surrounding region major one is the Mathura refinery
  - Government used many techniques to revive its color with the help of the multani mitti which work as cover for the monument

**G.S.-02**

- **Mahatma Gandhi Pravasi Suraksha Yojana [PIB]**
  - Government decide to close or stop its scheme
named mahatma gandhi pravasi surksha yojna (MGPSY) which was set up in 2012 to address the social security-related issues of the Emigration Check Required (ECR)-category workers going abroad for employment to ECR countries.

- The subscription under the MGPSY was very low and no new subscription was received for more than a year. Closure of the scheme will, therefore, obviates the avoidable recurring administrative and record-keeping expenditure.

• **Crime and criminal tracking network and system [CCTNS][PIB]**

• Government will start project planning of crime tracking system under home affairs which will work under better technology use for criminal investigation.

• The Inter-operable Criminal Justice System (ICJS) aims to integrate the CCTNS project with the e-
courts and e-prisons databases in the first instance and with the other pillars of the criminal justice system - Forensics, Prosecution, Juvenile homes and a nationwide Fingerprint data base of criminals in a phased manner.

- The integration will be achieved by providing access to the Judiciary, Police and Prisons through a desktop dashboard to facilitate expeditious and informed decisions and aid investigations.

- Originally approved in 2009, the Project aims to:

  a) deliver various web based police related services to citizens.

  b) facilitate a pan-India search of crime and criminal records of individuals through a national database.

  c) generate crime and criminal reports at the state and central level to inform policy interventions and
d) computerize police processes.

**Geotagging of assets created under RKVY**

[PIB]

1. **What is geo tagging?**

Geotagging- It is the process of adding geographical identification like latitude and longitude to various media such as a photo or video. Geotagging can help users find a wide variety of location-specific information from a device. It provides users the location of the content of a given picture.

Geomapping- a visual representation of the geographical location of geotagged assets layered on top of map or satellite imagery

2. **Why is Geotagging important?**

Several assets are created in the states under various schemes of the Ministry of Agriculture. Under RKVY also, states have been utilising substantial amount of funds for creation of infrastructure/ assets in agriculture and allied sectors such as soil testing labs, pesticide testing labs, bio fertiliser setting units, custom hiring centres, vaccine production units, veterinary diagnosis labs, dispensaries, milk collection centres, fish production units, godowns, cold storage, shade nets,
pandals for vegetable cultivation etc.

3. Who does it?

National Remote Sensing Agency (NRSA), ISRO at Hyderabad: This centre of ISRO has a software platform, Bhuvan, that allows users to explore a 2D/3D representation of the surface of the Earth. It also acts as a platform for hosting government data. Bhuvan Application Services that are diversified and relevant for many ministries were released.

Tools available with Police to Control Crowds / Protesters [PIB]

- Police is a State subject, hence State Govt. concerned is mandated to take measures to ensure protection of their police personnel.

- However, Govt. of India provides central assistance for procurement of various safety instruments/equipments including Anti-Riot Equipment, Full Body Protector, Bullet Resistant (BR) Jackets, Bullet Resistant (BR) Helmets, MSL, Tear Gas, PAVA Shells, Chilli Water Cannon under the scheme of Modernization of Police Force (MPF) as per their operational requirement and strategic priorities to the State police.
**Dalai lama visit to north east india and china interest**

- Dalai lama is the name of the Buddhist religious post which are now in refugee status in India after exile from Tibet due to one china policy and forceful adaptation of the Tibet by the China.
- When China fearing India about the damage due to Dalai Lama visit in India they are forgetting logic of sovereignty of every nation and what about China-Pakistan economic corridor? It is not breaching of Indian sovereignty.
- India should make clear statement about own sovereignty and every nation should respect neighbor interest and sovereignty.

**Rail development authority**

- For the reconstruction and reform in railway government established rail development authority that was recommended by the Bibek Debroy Committee.
• This authority comprise of 3 member and one chairman appointed by the search and selection committee comprise of cabinet secretary and member of the rail board

• Rail development authority look after the matter of the quality of service, passenger welfare and price or tariff determination

**Backward commission**

• Backward commission appointed by the government to identify caste that are belong to the socially and economically backward community

• This institution is now statutory body now government thinking about giving it constitutional status

• There are two list of the backward caste separate of state and central government and to give reservation to backward caste is not mandatory
Malnutrition and its impact on the economic development

- Malnutrition is physically recognized as the underweight or under height situation in which anemia situation is prevalent

- Anemia is the lack of blood component or iron in the body that are vital for the physical and mental development of the child

- Government try with supplement of the folic acid and also do with food fortification that means editing of the food to add protein in it.

- Malnutrition lead to child malnutrition > less capability > less physical and psychological power > less contribution in economic activity > lower productivity means lower economic power > again cycle start

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**G.S.-01**

- **Landslide in Himalayan region**
  - Landslide are the result of the weakening of the rock binding which make great harmful impact on local topography as well as road and infrastructure
  - Himalayan region specially have frequent and great landslide which can be due to sedimentary rock, temperature change and soil humidity, construction activity, steep slopes, deforestation etc.

**G.S.-02**

- **Babri masjid case**
  - Babri masjid case is the religious and sensitive case in which two community demanding right of shrine on one land
  - In 1992 demolition take place of thousand year ole babri masjid but no final award has been given in this case yet
  - This is the case of the delay in justice and this is simple equal to injustice so judiciary have to take step for the final award to be given that are
mutually agreeable to both community

An unfettered power
In calling for a joint trial of separate cases in the Babri Masjid issue, the Supreme Court used its extraordinary powers under Art. 142

Article 142: The Supreme Court may pass such decree or order as is necessary for doing complete justice in any cause or matter pending before it

- The recent highway liquor ban was imposed by the Supreme Court under Article 142
- In 2011, a bench of Justice A.K. Ganguly and Justice Deepak Verma had said on Article 142: “...no fetter is imposed on the court’s jurisdiction except of course any express provision of the law to the contrary”

Two sets: There were two sets of cases relating to the demolition of the disputed structure on December 6, 1992

- The first involved unnamed ‘karsevaks’, whose trial is taking place in a Lucknow court
- The second set of cases in a Rae Bareli court relates to theVVIPs accused of “inflammatory speeches”, in which the CBI is pressing for restoration of “conspiracy” charge against the accused

• Under article 142 Supreme Court has power to give final award to the cases that are in pending status in lower court. Supreme court also has writ jurisdiction of certiorari

G.S.-03

☞ RBI on loan waiver and economic situation

• Loan waiving is one of the welfare policy of the government in which farmer do not have to paid any loan due to failure of crop or inability to pay
• This step need more money or liquidity with government > government will borrow from the RBI > that means RBI have less money > high interest rate > less private investment

• On the other hand government adopt way of the bond issue for the fulfillment of money demand > this called sovereign bond on that they have to pay higher interest rate than private competitor > dear money or tight money > recession lead to also less investment

• So rather than giving them benefit of this kind that have no direct benefit we have to go for credit rationing by the government take step that can lead to capital infrastructure creation

• In the monthly policy review RBI hold the rate and increase reverse rapo rate > reverse repo rate is the rate at which RBI borrow money form bank for short term > raising reverse repo rate is the sing of tight money policy

• Merchant discount rate is the rate for bank charge
Ministry of Road Transport and Highways has formulated the Special Accelerated Road Development Programme for North East (SARDP-NE) for North Eastern Region and Sikkim.

The scheme, SARDP-NE was formulated with the following objectives:

- Up-gradation of National Highways connecting State Capitals to 2/4 lane;
- Providing connectivity to District Headquarter towns of NER by at least 2-lane road;
- Providing road connectivity to backward and remote areas of NE region to boost socio-economic development;
- Improving roads of strategic importance in border areas;
• Improving connectivity to neighboring countries.

**GARV App Upgraded for Monitoring Villages and Households Electrification**

• Grameen Vidyutikaran (GARV) App has been upgraded for monitoring the villages and households electrification in the country.

• GARV-II includes monitoring of electrification of habitations as well as households. It also provides an interactive platform for feedback and would help in expediting electrification works.

• Regarding Rural Electrification Programme the Government of India has launched Deendayal Upadhyaya Gram Jyoti Yojana (DDUGJY) which aims to
  • Village Electrification;
  • Providing access to households;
  • Feeder Separation;
  • Strengthening of sub-transmission and distribution network and
  • Metering.
NITI Aayog has developed a Composite Water Management Index as a useful tool to assess and further improve the performance in efficient management of water resources.

The index would provide useful information for the States and also for the concerned Central Ministries/Departments enabling them to formulate and implement suitable strategies for better management of water resources.

The Index has 28 key Performance Indicators (KPIs) covering irrigation status, drinking water and other water-related sectors.
• **Ken betwa linking project**

Ken betwa linking is the first of its kind river linking project that will transfer ken river surplus in betwa river system.

This river linking will facilitates irrigation and drinking water facility to the draught affected bundelkhand region.

But this project have mass environmental loss because of more than 200 KM long concrete canal and submergence of one tiger reserve due to water accumulation.

About 40 % are of the panna tiger reserve will submerge as per the primary survey so we have to take decision from balance view of the economy and environment.

Major problem for river linking in india are

• expenditure

• large scale infrastructure take time

• environmental degradation
• topography not suitable
• land acquisition issue
• climate make it impossible because major basin have surplus water on same time

G.S.-02

(anchor SC ask government to reply on cow vigilant extortion)

• Supreme court ask state government to give report on the issue of cow protection that take life of person
• Gujarat state recently come with tight policy on cow protection that needed as per the section of constitution under directive principle of state policy
• On the other person have fundamental right to life but vegetarian country like india milch animal killing led to more severe malnutrition problem
• While on the other hand co being the religious symbol will also create sensitivity among community and communal valance will trigger if not managed well
Rail development authority

- Government formulated rail development authority on the recommendation of the bibek debroy committee.
- This committee major work is to check pricing policy to make railway affordable to all and checking service standard to make It more consumer friendly.
- This authority include three member plus one chairman that nominated by the selection and search committee from railway ministry and railway board.
- Railway work for economic development by
providing as a link to mobiles good and services to make nation economy more vibrant while on the other hand it fuel integrity by joining corner of the country

- Committee should work with main mantra as economy and safety of the services

≥Great decision by the america

- American government take decision for the missile strike on the Syrian land which are under chemical attack
e-National Agriculture Market [PIB]

- e-NAM is the pan Indian online agricultural market network that work to make Indian agricultural market more competitive and farmer friendly.
- In this market all the madis will be connected through internet which will led to online price of the commodity so commission agent roll will decrease and farmer ill get real price of their produce.
- This will work under agricultural produce market committed which is currently under operation for the farm produce selling.

non banking financial company [PIB]

- This is the financial market entity lend money and can not give checkbook to its customer also can not accept demand deposite of the account holder.
- Non-banking Finance Companies (NBFCs),
incorporated under the Companies Act, are regulated by Reserve Bank of India (RBI).

- Interest rate of the NBFC decided by themselves on the basis of the rationale banking practices taking into consideration of the central bank monetary policy.

**High-Nitrogen Steel [PIB]**

- The Technology of processing Nickel Free High-Nitrogen Steel (HNS) has been developed by Defence Research and Development Organisation (DRDO).

- HNS has been found to have potential for use in armour applications.

- The development of HNS was initiated as a basic Research & Development (R&D) and the technology fits to the policy of ‘Make in India’ initiative.
• HNS has potential for use in all armour applications. However, for material to be qualified and used in a specific combat vehicle application, it has to undergo many types of tests by the designers of the vehicle, including ballistic testing against specific ammunitions.

• The qualification of any material for its introduction into any armoured application is a long process and HNS has not yet been qualified for use in these applications.

**Joint Military Exercise Between India and Nepal [PIB]**

• Joint exercise of the Nepal and indian army named as operation surya kiran

• The objective of the exercise was to increase military-to-military cooperation with emphasis on cooperation in the area of Counter Insurgency /
Counter Terrorism, Humanitarian Aid and Disaster Relief, Disaster Management Capabilities and effectiveness of any response to Pandemic / Epidemic diseases and Combat Life Survivality between the two countries.

International Financial Services Centre (IFSC) in a Special Economic Zone (SEZ);[PIB]

• First IFSC become operational at the Gujarat International Finance Tec-City (GIFT), Gandhinagar

• Companies in this area have following benefit

• The company shall not be liable to dividend distribution tax.

  □ Minimum Alternate Tax shall be charged at minimum
  □ transfer price gain will be exempted from taxation
  □ no commodity transaction tax.
Conversion from BSIII to BS IV standard

- This is the vehicular emission standard on the basis of the European standard on that India now working.
- Recently in court order India ban BSIII standard new automobile and star new series of the BS IV that have lesser emission and air pollution that is giant problem of the day.
- This sudden transfer will have great impact on our automobile sector as they have less time and supply chain and manufacturing management will also affected.
Mahavir and jain tradition

Bhagwan Mahavira’s philosophy of ahimsa, truth, compassion and non-violence are of increasing relevance in today’s world. His teaching of right faith, right knowledge and right conduct. Let us unite and build a society free from violence, terrorism and exploitation.”

Jain have tirthakara tradition from which mahavir was 24th jina who preached world about non violence

Jain sect have two part i.e. swetambar and digambar sect

Welfare of the tribal people

- Constitution have lot of provision related to tribal people from security of the special culture and tradition to the reservation in the government post to give them space main stream
- On the eve of the independent then prime minister
Jawaharlal Nehru told to the nation that if government will force tribal people to transform them to mainstream will create exploitation of them and exclude them from process of development means lack of inclusive and sustainable society.

- Government given status of particularly vulnerable group [PVTG] to some tribal group that have major threat from process of development or they are vulnerable to social exploitation.
- Major PVTG living in Orissa and all the tribal group from the Andaman island are in PVTG category.
- Some PVTG group are the great Andamanese, onge, lanjiasoara, toda of nilgiri, birhor, and the saharia tribe are largest community under PVTG found in MP and Rajasthan.

**Draught situation and food security**

- Draught becoming like daily problem for the indian sub continent as global climate changing.
• Draught will be many type like meteorological draught situation means lower rainfall than what is climate standard for that particular area while hydrological draught means scarcity of water in river basin while lack of humidity and high temperature also make above rainfall year as draught hit year

• Lack of water > no food crops > or farmer going to cash crops > food security affected > food inflation > worsened malnutrition problem > lower economic capability of person > lower HDI > higher subsidy of government > no capital investment

• **Lower rate of women in labour participation**

• Recent study by the world bank reveled that despite of the economic growth of the indian economy women participation and economic process remain stagnant

• Lowe rate is due to lack of education as more girls drop out ratio > less skill > less pay and there are
also lack of security on work place major incident of the women molestation at work place

- Patriarchic society also not accepting women as economic earner of the family

**Teesta river water sharing problem**

- This river flowing from Sikkim, west Bengal and merge into Brahmaputra in Assam and then flowing in Bangladesh
- Global warming and climate change led to major water crisis between country and intra country

G.S.-02

**India Bangladesh relation**

- India and Bangladesh relation taking new step under leadership of the hasina that start during liberalization of the Bangladesh
- After partition india and Pakistan divided in which Pakistan have two geographical entity ie east Pakistan and west Pakistan
- But east Pakistan always become territory of the
exclusion from the government policy

• And this policy of the exclusion led to people migrate to the india and that led to the internal security threat to the india

• So india government help in liberation of the Bangladesh that led to indo pak war

• Recently Bangladesh government pay honor to indian army battalion which helped in liberation

• Major problem of indo Bangladesh relation is the river water sharing issue major problem is teesta river

G.S.-03

• Elephant census

• India government recently announced to conduct census of the elephant after 5 year that will check the quality of the ecosystem for key species like elephant

• Key species are the species that are most important for the sustainable ecosystem and without them
whole forest food chain will be impacted so their existence is clear sign of the good health status of the ecosystem

- Government also stated special project for the elephant

**Global warming and heat wave problem in India**

- 2016 become the warmest year of record for this century and that led to major problem for the indian subcontinent with lack of humidity in air that also make worse scenario for the agriculture of the india
- This heat wave like condition also make peoples life more harder with interstate water sharing problem
- Heat waves are a sharply defined concept, as per Indian meteorology. Depending on whether a place’s historical temperature is 40C or less, a 4.5C (or greater) rise in temperature counts as a ‘heat wave’ and 6.5C and more, a ‘severe heat wave.’
- El nino effect is the major cause of the indian heat
wave like situation because of the changing wind pattern and humidity deficit in country

- Negative Indian Ocean Dipole also effect of the heat wave because in this situation when severe heat wave attack > land surface become hotter than ocean > but land surface cool down rapidly while ocean temperature become slow change > ocean now become hotter than land and this will weaken Indian monsoon > Indian ocean is rapidly becoming hot island

- Heat wave have major problem on human health as this led to water deficit in the human body and many other symptoms

G.S.-04

- Scene of deteriorated humanity

- Syrian chemical attack victim who now doesn’t know what is this world think and define what is humanity according to you
100 years of Champaran Satyagraha

Champaran satyagraha is the major historical event of Indian national movement and first satyagraha by the gandhi

In 1917 during the first world war Britain government lose some territory which have potential to grow neel or die. This dye can be grown in area with humidity and tropical climate like gangetic plain with river sediment that make it more fertile.

Rajedraprasad of the bihar request gandhi to visit bihar because of grave condition of the farmer due to teenkathiya system.

According to this system farmer have to grow indigo in 1/3 part of the farm and lower price of the final product.

This satyagraha never fought but gandhiji ordered volunteer to gather information about condition of the farmer and than give to district administration.
that means gandhiji believe in rule of law of the Britain colonialism

**G.S.-02**

- **Inter-State Council [PIB]**

  - Inter state council is the constitutional body under article 263 that provide for the better cooperation among state and cooperative federalism
  
  - All the state and union territory given representation as member and central preside as chairman of this council
  
  - This council decide over mutual solution of the interstate problem

- **Security Features of The ECI-EVMs [PIB]**

  - In the recent past, there have been some queries in the minds of common people about the security features of Electronic Voting Machines (EVMs) of Election Commission of India (ECI). The Election Commission has, *time and again*, stated that ECI-
EVMs and its systems are robust, secure and tamper-proof.

• Tampering means alteration in the software program written either on existing microchips of Control Unit (CU) or introducing malicious software program by inserting new microchips in CU and also making keys - pressed in Ballot Unit (BU) not record faithfully in the Control Unit.
Electronic Voting Machine Explained

Production & Design

Only two Indian PSUs—Bharat Electronics Limited (BEL) and Electronics Corporation of India Limited (ECIL)—manufacture the EVMs

A few select engineers have access to the source code, which is kept under a controlled environment. Engineers in factories don’t have any clue about the constituency-wise deployment of the machines which takes place only at a much later stage.

EVM consists of two units:

- Control Unit (CU) kept with Presiding Officer of a polling booth
- Ballot Unit (BU) used by the voters to press the button to vote

Models of EVMs

M1
Manufactured: 1989 to 2006
These were last used in 2014 general elections. No M1 machine was used in the recent elections in five states.

Present Inventory:
- 9.2 lakh (including BUs, CUs)
- About 1.4 lakh such EVMs destroyed so far

- CUIs in all post 2006 EVMs accept only encrypted and dynamically coded data from BUs
- No wireless device can communicate or tamper with the device as there is no receiver or decoder
- A real time clock has been added to the new version of BUs to record every key-pressing

13,95,926 BUs and 9,30,716 CUIs are to be procured till 2019, the year India will witness the next general election

M2
Manufactured: 2006 to 2012

Present Inventory:
- Ballot Units: 5.57 lakh
- Control Units: 5.3 lakh

Real time clock and dynamic coding were two major features added to this device

M32
Manufactured: 2013 and later

Present Inventory:
- Ballot Units: 3.4 lakh
- Control Units: 3.36 lakh

A tamper proof feature was added. The device stops functioning when accessed without authorisation

Deployment & Transportation

- EVMs are transported from factory under security measures comparable with that of RBI transporting cash to the designated places
- Machines are sent from the factory to the district headquarters directly, avoiding any stoppage or storage at the state capital
- EVMs are stored in strong rooms at the office of district electoral officer. There is a double lock system under which both the keys, one each kept with the district electoral officer and additional district electoral officer, are required to unlock the strong room
- First level technical and physical checking is done by authorised BEL/ECIL engineers before use in front of representatives of political parties. Entry to the hall is restricted and cameras/mobile phones are not allowed. Defective EVMs are sent back to the factory

End of the Road

- EVMs have a life of only 15 years
- All units manufactured till 2001 have been discarded
- Chips containing the code need to be crushed in presence of an officer of the Election Commission of India. CU, BU, display units etc. are removed from the plastic holding and crushed

Source: Election Commission of India

Mock voting is done in 5% EVMs randomly by representatives of political parties during the first level checking

Computerised randomisation of EVMs is done twice in front of representatives of political parties

Another mock poll on 5% EVMs conducted when candidate setting is done after the nomination process ends

Final mock poll is done in front of polling agents on the polling day just before the actual polling begins

After the poll, presiding officer presses the “Close” button. EVMs are sealed and polling agents put their signatures on the seals

EVMs are stored in strong rooms with 24-hour security. Candidates or their representatives are allowed to put their own seals on the strong rooms. Candidates or their representatives are allowed to monitor the entrance to the strong room on CCTV monitors
**When by election become problem**

- When any seat in state and central legislative body become vacant than by election held by the election commission.
- When any seat become vacant then according to provision of the representation of the people act there should be by election within six month of the time.
- When money or muscle power use to allure voter than election commission itself can declare election of that area as null and void an cancelled.
- In india there are no lower limit of vote casting means any percentage of the voter turnout is valid like if there is only less than 10% vote it is also valid.

**A case of Aadhaar**

- Aadhaar is the name given to the unique identification program of the by government of india.
- This Aadhaar have person biometric information that can be used for the direct benefit transfer to the
targeted person

- But without legislation government can not use person information because it will be breach of the fundamental right of the person under right to privacy guaranteed under indian constitution
- Government presented this bill as money bill to give them constitutional status but there are also breach of the constitutional provision because of definition of money bill not given under article 110 and decision of the speaker become final in the case of the money bill or not
- This decision can not be questioned in judiciary that bill is money bill or not and rajyasabha have limited power in the matter of the money bill

G.S.-03

Mass hatching and olive ridley turtle

- Olive ridley turtle is the one of the marine turtle species which is now listed as endangered species of IUCN
• This turtle every year come at east cost or uttar
sarkar coast fo mass hatchin near rushikulya or
gahirmatha coast
• River bed sand dunes on the coast provide best
  situation for the development of the egg because of
  the less salinity in it
• This year also lakhs of turtle come to give egg but
  this turtle in endangered list because of the lower
  percentage of the turtle could survive
Heat Wave

Heat wave is the hot high temperature situation that is the routine summer problem in Indian subcontinent.

Heat wave situation decided by the Indian metrological department when temperature goes more than 40°C as heat wave and more than 6 degree rise in temperature called as severe heat wave situation.

Heat wave situation also have great impact on human health.

Development of the Sindhi Language

Sindhi is the combine language of the Indo and Persian language so this language have major similarity with Hindi.

This language spoken by the people of the border.
area of the india and Pakistan where Indus civilization take place

• This language have maximum alphabet than any other indo Persian language and this language have place in 8th schedule of the official language

• Sindhi language development also can help to deciphering language of the Indus valley people that are not deciphered yet.

• 8th schedule of the constitution include some language that called official language and if government want to add any language in it that can be only done by the constitutional amendment

G.S.-02

• Unnat Bharat Abhiyan

• The Ministry of Human Resource Development (MHRD) along with the Ministries of Rural Development and Panchayati Raj has agreed to link all Higher Education Institutes (HEIs) with rural development processes under Unnat Bharat Abhiyan (UBA).
• an attempt to bring about substantial improvements in the formulation and delivery of developmental schemes in the rural areas.

**KVIC Schemes**

• To improve the quality of Khadi products and to ensure their better acceptability for marketing, KVIC is implementing schemes like Market Promotion and Development Assistance (MPDA) Scheme, Khadi Reform and Development Programme (KRDP).

**G.S.-03**

**Export of Organic Produce**

• Organic farming is the new emerging field of the agriculture in the system of sustainable and inclusive agriculture

• Under this agriculture system no chemical component being used that make it healthy produce

• Organic agriculture mainly being used in north east
state and Sikkim is organic state of India

- India should use more and more component of the organic agriculture that can make Indian agriculture more and more sustainable that also can be improved and make Indian agriculture more and more profitable.

**Summer and water shortage in India**

- Indian sub continent facing summer draught like situation for two to three year due to climate change and over use of the natural resources
- Indian monsoon being unique in its sense also have distinct dry season up to 8 month and people don’t have habit or knowledge to use it judicially
- El Niño, Indian Ocean dipole and severe heat wave condition continuously led to hydrological draught means when hydrological cycle or balance become weak that led to water shortage and overuse is manmade reason for that.
- Water problem should be thoughted with greater
emphasis on sustainable and inclusive use because this problem also can be issue of the national security and integrity for example Cauvery water crisis, Sutlej Yamuna link canal issue etc.

- Here problem is not rain but lack of judicious use of the water resources

**Indo sulfan major devil**

- Indo sulfan is the product of the component development under government green revolution program to get high return
- But this pesticide can cause major health issue in human kind by process of the bio accumulation and bio magnification

**Survey of india**

- Survey of india is the oldest scientific organization and official maker of the map
- This organization recently launched portal name
NAKSHE that will provide free access to lot of the maps for scientific and educational purpose

- Access to this map need Aadhaar number for the security reason and now this organization planning to make india geoid map that will help for topography observation through map

**Coral reef**

- Coral reef is the marine organism that create with the symbiosis relation of the polyps and zooxanthale
- Coral reef called rainforest of the ocean because they contain lot of marine animal as resident and food organism
- Coral reef mainly found in area of temperature from range of 20 to 27 C with clear water without any silt component like mouth of the river and water should have medium salinity
- In india major coral reef found in gulf of mannar, gulf of kutch and area of the lakshdeep
- Great barrier reef is the major area of the coral reef in the world recently affected by the el Niño incident
• **Mahatma Phule [PIB]**
  - Jyotiba Phule also known as Mahatma Phule from Maharashtra also worked in the era of the socio-religious reform.
  - Jyotiba Phule worked in the area of the elimination of the caste system and specially worked in the field of the dalit society improvement.
  - Mahatma Phule established Satyasodhak Society for the institutional work of social development.

• **Blue Revolution [PIB]**
  - Realizing the immense scope for development of fisheries and aquaculture, the Government of India has restructured the Central Plan Scheme under an umbrella of Blue Revolution.
  - Integrated Development and Management of Fisheries (CSS) approved by the Government.
provides for a focused development and management of the fisheries sector to increase both fish production and fish productivity from aquaculture and fisheries resources of the inland and marine fisheries sector including deep sea fishing.

- The Blue Revolution is being implemented to achieve economic prosperity of fishermen and fish farmers and to contribute towards food and nutritional security through optimum utilization of water resources for fisheries development in a sustainable manner, keeping in view the bio-security and environmental concerns.

- **High Yielding Seeds [PIB]**

- High yielding varieties is the one of the developed and researched component of the green revolution

- This varieties include commercial and food grain that make it higher production and higher economic prosperity to farmer
• This also target to farmer development but without rationale research this led to environmental degradation

• Now government want to launched evergreen revolution that aim to achieve sustainable and inclusive development

• **PMBJP [PIB]**

  Pradhan Mantri Bhartiya Janaushadhi Pariyojana (PMBJP) Kendras are functional in the country to provide medical facility to people who need it most

  This scheme started in order to promote the use of generic drugs in the country and with the objective of making available quality generic drugs at affordable prices to all, a countrywide campaign in the name of PMBJP has been started.

  The PMBJP scheme provides more than 600 medicines and 154 surgicals and consumables at affordable prices in all therapeutic categories such as Anti-infectives, Anti-diabetics, Cardiovasculars,
Anti-cancers, Gastro-intestinal medicines, etc.

- This initiative also led to maximum expenditure by the government in health that is most needed sector of the nowadays government

**Virtual Currencies [PIB]**

Virtual currency is the currency that design on internet platform to use it on digital platform and this currency have no physical form.

- Bitcoin is major component of the digital currency but no country or central bank have provided them authorize status.

- The creation, trading or usage of VCs including Bitcoins, as a medium of payment is not authorized by any central bank or monetary authority. No regulatory approval, registration or authorization has been obtained by the entities concerned for carrying on such activities.

**Bharatiya Mahila Bank (BMB)[PIB]**

- The Bharatiya Mahila Bank (BMB) was created to
enhance access to financial services at affordable rates, promote asset ownership, entrepreneurship for the purposes of inclusive growth and empowerment of women in general.

- The objectives of affordable credit to women as well as propagation of women-centric products need to be quickly achieved through a wider network and lower cost of funds which are not possible for a new bank and that is why to achieve this, BMB has been merged with State Bank of India.

• **Mission to curb tuberculosis [PIB]**

- According to report of the global burden of the disease india accounted for majority of the cases of tuberculosis

- But major problem is related to the access to the health facility and resistant to drug

- The Revised National Tuberculosis Control Programme is being implemented under the aegis of the National Health Mission with the following steps
• strengthening and improving quality of basic TB services,
• addressing TB HIV co-infection, other co-morbidities and MDR-TB
• engaging with care providers both in the public and the private sector
• targeted intervention in the vulnerable population and strengthening urban TB control along with active case finding activities
• integrating newer molecular diagnostics for TB in the health system (CBNAAT) for early diagnosis of MDR TB

PMGSY
• Pradhan mantri gram sadak yojna is the flagship program of the government of India for the rural infrastructure development
• This program aim to provide all weather road connectivity to rural area
• This program will provide road connectivity to
village with population up to 500 population in plain region and 250 population in mountain, tribal and desert areas

New law on HIV AIDS

- This law provide equal right for the treatment and opportunity of the job to person and this new law also provide opportunity right to life with dignity
- The legislation prohibits discrimination against people living with, and affected by, HIV in a range of settings, including employment, education, housing and health care, as well as with regard to the holding of public or private office, access to insurance and freedom of movement.
- The Bill also prohibits any individual from publishing information or advocating feelings of hatred against HIV positive persons and those living with them.
• **Lok adalat**

Lok adalat is the alternative dispute resolution system under national legal service authority [NALSA]

NALSA established under directive principle of state policy which stated for free legal aid and service

In lok adalat if final award accepted by both party then there is no appeal against order passed by the lok adalat

Lok adalat have major role in the solution of the problem of case pendency in the judiciary

• **BIMSTEC [PIB]**

The Bay of Bengal Initiative for Multi-Sectoral Technical and Economic Cooperation (BIMSTEC) is an international organization involving a group of countries in South Asia and South East Asia
• Member country are Bangladesh, India, Myanmar, Sri Lanka, Thailand, Bhutan and Nepal

• Recently this group have signed MoU about interconnection of the electricity grid that have following impact

  (i) the optimization of using the energy resources in the region for mutual benefits on non-discriminatory basis subject to laws, rules and regulations of the respective Parties;
  (ii) the promotion of efficient, economic, and secure operation of power system needed through the development of regional electricity networks;
  (iii) the necessity of optimization of capital investment for generation capacity addition across the region; and
  (iv) power exchange through cross border interconnections.
• **Rail Development Authority [PIB]**

• Indian railway development authority proposed to established under recommendation of the bibek debroy committee

• This authority will help in decision of the fair price, quality of the service and consumer grievance handling

• This authority will comprise of chairman and member that will be elected by the railway board and ministry lead search cum selection committee

• Some of the aims and objectives of Rail Development Authority are:

  • pricing of services commensurate with costs;
  
  • enhancement of Non Fare Revenue;
  
  • protection of consumer interests by ensuring quality of service and cost optimization;
  
  • competition, efficiency and economy; market development; creation of positive environment of
investment;

• benchmarking of service standards against international norms; providing framework for non-discriminatory open access to Dedicated Freight Corridor,

• absorption of new technologies for achieving efficiency and performance standards; and human resource development to achieve any of its stated objectives

G.S.-03

• **oil palm [PIB]**

  Edible Oil is an important component of household food basket.

  Oil Palm is one of the world's most efficient crop in terms of yield of vegetable oil per ha and today it is largest source of vegetable oil in the world.

  Malaysia, Indonesia, Nigeria, Thailand and Columbia are the major oil palm producing countries
• India also heading toward maximum plantation of the oil palm by deforestation from tropical area of the southern state
• Oil palm have great impact on forest and ecology because this commercial plantation will lead to degradation of the forest bio diversity

➔ **Pricing of the petroleum product**
• Petrol prices in india was decided by the government but after 2010 petrol and after 2014 diesel prices have been de regulated
• Currently petroleum prices revised every 15 day that is on 1\textsuperscript{st} of month and on 16\textsuperscript{th} of the month
• Now government want to make system more market based and dynamics as advanced country have
• Oil marketing companies proposed about daily price decision as per international market price
• From may 1 government will implement pilot project of this proposal
Global potential of PSLV

- Polar satellite launching vehicle [PSLV] got world attraction toward record of the satellite launching about record of 104 satellite
- ISRO has developed this launching vehicle and ANTRIX is the commercial branch of the ISRO
Paika revolt

Paika revolt not much familiar in history was bloodshed war against Britain colonialism

This revolt take place in coromandal coast area of the Orissa

This revolt took place in 1817 much earlier than first revolt in 1857 and led by bidyadhar mahapatra but not much known due to lower spread of this revolt

Jallianwala Bagh massacre

Jallianwala bagh massacre took place on 13th April, 1919

On this day people gather in bagh to oppose rollet act that was passed by the Britain parliament after world war 1

This law stated about no right to take lawyer and arrest without warrant and state also about preventive detention

General dyer give order to fire on people in garden
that have only one narrow gate so lots of people die due to it

G.S.-02

Some motion in house

- Indian parliament have some motion that present to manage work load of the house
- Adjournment motion present in house to stop work of house for definite time that can be present in both house
- Adjourn sine die motion means house adjourn for indefinite time period and will be summoned by president at the time of new session

Right to internet

- Supreme court in recent hearing announce that right to internet is the fundamental right of the person
- Right to speech and expression also include right to know and right to information that means this right of internet can not be curtailed without reasonable
restriction

- Internet now source of the information revolution termed recent world as virtual world

G.S.-03

Swine flu

- Swine flu spread through H1N1 virus that can also caused death of the person
- Basically this virus affect person through pig and major symptom is like another flu that is coldness etc.
- H5N1 is another virus called bird flu also spread recently in northern state in chicken

Pradhan Mantri Mudra Yojana (PMMY)

- This program is for the refinance of the entity specially for the weaker section of the society
- Mudra Loans are available for non-agricultural
activities up to Rs. 10 lakh and activities allied to agriculture such as Dairy, Poultry, Bee Keeping etc, are also covered.

• Mudra’s unique features include a Mudra Card which permits access to Working Capital through ATMs and Card Machines.

• Evaluation studies show that banks have been proactive in identifying and disbursing loans to first time borrowers thereby weaning them away from money lenders. Borrowers particularly value three attributes of Mudra Loans viz,

• Non-insistence on guarantor or collateral, simple documentation and quick processing.

**BHIM-Aadhar in Nagpur tomorrow**

• BHIM-Aadhaar, the merchant interface of the BHIM App, to be launched by the Prime Minister will pave the way for making digital payments by
using the Aadhaar platform.

- This will enable every Indian citizen to pay digitally using their biometric data like their thumb imprint on a merchants’ biometric enabled device which could be Smartphone having a biometric reader.

- Any citizen without access to Smartphone, internet, debit or credit cards will be able to transact digitally through the BHIM Aadhaar platform, thus realizing Dr. Ambedkar vision of social and financial empowerment for all. Already, 27 major banks are now on board with 3 lakh merchants so that they can start accepting payments using BHIM Aadhaar.
Livelihoods thrust and Strategy for Poverty Free Gram Panchayat [PIB]

- Deendayal Antodaya Yojana – National Rural Livelihoods Mission is an important rural poverty alleviation program implemented by the Ministry of Rural Development with the support of State Governments.

- The Ministry of Rural Development, Government of India held a national consultation with SHG women of all States and UTs on “transforming lives through livelihoods thrust and Strategy for Poverty Free Gram Panchayats”
• Some definition of IMD

**Rain/Snow**
- Heavy: 64.5 to 115.5 mm/cm
- Very Heavy: 115.6 to 204.4 mm/cm
- Extremely Heavy: > 204.4 mm/cm

**Heat Wave**
- When maximum temperature of a station reaches ≥40°C for plains and ≥30°C for hilly regions.
  - (a) Based on Departure from normal
    - Heat Wave: Maximum Temperature Departure from normal: 4.5°C to 6.4°C.
    - Severe Heat Wave: Maximum Temperature Departure from normal ≥6.5°C
  - (b) Based on actual maximum temperature
    - Heat Wave: When actual maximum temperature ≥45°C.
    - Severe Heat Wave: When actual maximum temperature ≥47°C
  - (c) Criteria for heat wave for coastal stations
    - When maximum temperature departure is ≥4.0°C from normal. Heat Wave may be described provided maximum temperature ≥37°C

**Warm Night**
- When maximum temperature remains 40°C
  - Warm Night: When minimum temperature departure 4.5°C to 6.4°C.
  - Severe Warm Night: When minimum temperature departure ≥6.4°C.

**Cold Wave**
- When minimum temperature of a station ≤10°C for plains and ≤0°C for hilly regions.
  - (a) Based on departure
    - Cold Wave: Minimum Temperature Departure from normal ≤-4.5°C to ≤-6.4°C.
    - Severe Cold Wave: Minimum Temperature Departure from normal ≤-6.5°C
  - (b) Based on actual Minimum Temperature (for Plains only)
    - Cold Wave: When Minimum Temperature is ≤-4.0°C
    - Severe Cold Wave: When Minimum Temperature is ≤-2.0°C
  - (c) For Coastal Stations
    - When Minimum Temperature departure is ≤-4.5°C or actual Minimum Temperature is ≤15°C

**Cold Day**
- When minimum temperature of a station ≤10°C for plains and ≤0°C for hilly regions
  - Based on departure
    - Cold Day: Maximum Temperature Departure from normal ≤-4.5°C to ≤-6.4°C.
    - Severe Cold Day: Maximum Temperature Departure from normal ≤-6.5°C

**Fog**
- Phenomenon of small droplets suspended in air and the horizontal visibility < 1km
  - Moderate Fog: When the visibility between 500-200 metres
  - Dense Fog: when the visibility between 50-200 metres
  - Very Dense Fog: when the visibility < 50 metres

**Thunderstorm**
- Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder)

**Dust/Sand Storm**
- An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind.

**Frost**
- Ice deposits on ground
  - Air temperature ≤4°C (over Plains)

**Squall**
- A strong wind that rises suddenly, lasts for atleast 1 minute.
  - Moderate: Wind speed 52-61 kmph
  - Severe: Wind speed 62-87 kmph
  - Very Severe: Wind speed >87 kmph

**Sea State**
- Effect of various waves in the sea over specific area
  - Rough to very rough: Wind speed 41-62 kmph (22-33 knots) & Wave height 2.5-6 metre
  - High to very high: Wind speed 63-117 kmph (34-63 knots) & Wave height 6-14 metre
  - Phenomenal: Wind speed >117 kmph (>63 knots) & Wave height >14 metre

**Cyclone**
- Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots)
- Severe Cyclonic Storm: Wind speed 88-117 kmph (48-63 knots)
- Very Severe Cyclonic Storm: Wind speed 118-165 kmph (64-89 knots)
- Extremely Severe Cyclonic Storm: Wind speed 166-220 kmph (90-119 knots)
- Super Cyclonic Storm: Wind speed >220 kmph (>119 knots)
Mother of all bomb

- This name given to explosive bomb stacked by the US on Afghanistan in IS held areas called khorasan
Mother of all bombs

The U.S. military has dropped America's largest non-nuclear bomb on suspected IS militants in Achin district of Afghanistan's Nangarhar province. This is the first time this weapon has been used in battle.

**Payload:**
8,452 kg of high explosive
Tritonal — mixture of TNT (80%) and aluminium powder (20%)

**Why Nangarhar**
- Nangarhar province in eastern Afghanistan, which shares border with Pakistan, is the base of the Islamic State in the country.
- The IS declared the province a part of the 'Caliphate', and renamed it Khorasan.
- According to the U.S. military, the bomb targeted the tunnels and caves that the militants were using.

**36** Number of IS militants reportedly killed in the bombing in Afghanistan.
**$16 million** Cost of each MOAB.
**$314 million** The total cost of the programme that produced 21 of the bombs.

**Why MOAB?**
- MOAB was first tested in 2003, but if used in urban warfare its impact will be huge.
- It's a concussive bomb designed to explode above ground and create a massive blast.
- The blast is big enough to reach deep into areas that other conventional bombs cannot.
- In Nangarhar's mountainous region, where IS fighters are using bunkers, tunnels and caves "to thicken their defences, this is the right weapon to reduce these obstacles," says Gen. John W. Nicholson, commander of U.S. forces in Afghanistan.

**GBU-43/B Massive Ordnance Air Blast Bomb (MOAB), also known as 'Mother of all Bombs'**

**Length:** 9.45 m

**Detonation** Aluminium powder accelerates maximum explosive pressure and makes it 18% more powerful than TNT.

**Exploration** Cloud ignites, creating fireball 1 km in diameter.
- Blast pressure is close to that of a tactical nuclear weapon.

**Delivery** Pallet deployed from near cargo door of MC-130H or C-17 aircraft.
- Bomb is dropped from high altitude using a parachute — out of danger of ground fire — and satellite guidance ensures accuracy.
**Water sharing problem**

- Water sharing problem increasing as water supply decreasing and our usage taking place due to climate change and changing economic scenario
- In India, Cauvery, SYL link canal, Indus water treaty and teesta river sharing become major problem this year
- No state or center can claim fright over water resources as this is the natural resources on which every people have universal access right
- Though constitution put water in the state list that is problem in the time of crisis so there should be constitutional reform to make it concurrent subject that can help center to take judicious and constitutional way of water problem solution

**Diplomacy in religious**

- Recently Buddhist religious head Dalai Lama visited Arunachal Pradesh that affect China interest in one China policy and China claimed that it has affected
china sovereignty

• Actually case begin with the china attack on Tibet and merge it with china so religious leader dalai lama came to india as refugee till date and communist government of the china don’t want any religious affect on china

• China should also think about indian sovereignty in the case of china Pakistan economic corridor that passed through PoK

G.S.-03

☞ BHIM-Aadhaar – a digital payment platform [PIB]

• Route to the digital payments gaining the proportions of a mass movement, the Prime Minister Narendra Modi launched a series of initiatives on the 126th birth anniversary of Dr. Bhim Rao Ambedkar in Nagpur today. He launched the BHIM Aadhaar platform for merchants, Cashback and Referral bonus schemes for BHIM and
declared about 75 townships going less-cash.

- Launching BHIM-Aadhaar digital payment platform, Prime Minister said that the BHIM App is positively impacting several lives across the nation. He said that the Digi-dhan movement is also a cleansing mission to fight the menace of corruption.

- BHIM-Aadhaar, the merchant interface of the BHIM App, will pave the way for making digital payments by using the Aadhaar platform.

- Any Indian citizen can pay digitally using their biometric data like their thumb imprint on a merchants’ biometric enabled device which could be smart phone having a biometric reader.

**Digital Payment Revolution [PIB]**

- Lucky GrahakYojana and DigiDhanVyaparYojana launched

- 100 Digi Dhan Melas held in 100 cities all over the country.
• 100 day long information, education and communication campaign led by NITI Aayog to make digital payments a mass movement in India.

• BHIM App and QR Codes launched.

**BHIM-Aadhaar, the merchant interface of the BHIM App**

• It will pave the way for making digital payments by using the Aadhaar platform.

• Any Indian citizen can pay digitally using their biometric data like their thumb imprint on a merchants’ biometric enabled device which could be a smart phone having a biometric reader.

• Any citizen without access to smart phones, internet, debit or credit cards will be able to transact digitally through the BHIM Aadhaar platform.
EKATMAKTA, SAMATA AND SAMAJIK SAMRASTA

GUIDING PRINCIPLE OF GOVERNMENT[PIB]

The Government has undertaken a series of initiatives for social justice and empowerment. Ekatmakta, Samata and Samajik Samrasta are the guiding principles in this direction.

Educational Empowerment for SCs is through scholarships, hostels for students, coaching facilities, capital for creation/upgradation of premises, institution etc.

The Government of India believes that Education for all is the key to empowerment.

The Minister emphasized that the Government is committed for the social, economic and educational uplift of the Scheduled Castes and has therefore enunciated policies and schemes across different Ministries for targeted benefit and progress of the scheduled castes.
• a new scheme “Rashtriya Vayoshri Yojana” has been launched recently for distribution of Aids and Assisted Living Devices to Senior Citizens, which will help them to overcome their age related physical impairment and to lead a dignified and productive life with minimal dependence on caregivers or other members of the family.

• Dr. Ambedkar Medical Aid Scheme, medical aid is provided to the patients suffering from serious ailments requiring surgery of kidney, heart, liver, cancer and brain or any other life threatening diseases including organ transplant and spinal surgery to the Scheduled Caste and Scheduled Tribe persons whose annual family income is less than Rs 2,50,000/- p.a. During the last three years,

**Mahanadi river dispute**

• Chhattisgarh and Orissa plus many state involved in this dispute of sharing water

• As climate change taking place new and new water
dispute coming into light like SYL canal issue, Cauvery water dispute etc.

- Water is currently state subject under 7th schedule of the constitution

G.S.-03

**Khurki and Teenkathiya systems[PIB]**

- Above stated term told about agriculture peasantry system of the colonial india in which farmer have to grow Britain needed crop in 3/20 part of their land

- there is no other example in the human civilisation about the war waged by the farmers in a peaceful way against the oppression and injustice of the Britisher under the leadership of Gandhiji.

- the innocent, disarmed farmers raised their voice against the atrocities, exploitations, oppression and extortion of the Britishers and forced them to abolish the system through Satyagraha.

- the Neeley Britishers had confiscated more than one
lakh crore fertile lands and set up their kothis there.

- Farmers were being exploited and oppressed in different ways by Neeley Britishers under Khurki and Teenkathiya systems. Under Khurki system,
  - the British planters used to pay some money to the farmers (Raiyyat) by mortgaging their lands and houses and compelling them to sow indigo.
  - the British administration and Jamindar had established “Teen Kahitya” system under which teen katha land out of one bigha was reserved for indigo (Neel) farming.
  - The farmers had to bear the cost of indigo farming and the British planters used to keep the yields without compensating the farmers.

**Chit fund issue in india**

- Chit fund is the case of financial fraud in which group of person cheated to invest in short term high return scheme
- This kind scheme majorly can be seen in rural india
where illiterate people fall in the trap of this group

- Chit fund and pyramid scheme are all synonymous word

**Goods and service tax**

- It’s the new system proposed to be rolled out from July 1 this year for taxing all goods and services that you consume. The Goods and Services Tax or GST will replace the myriad local, State-level and Central taxes that are built into the price you pay for products, and the service tax as well as cesses that are dovetailed to your outgoes when you dine at a restaurant or pay your mobile phone bills.
- As a single tax that would replace all such duties and cesses, the GST will make India a unified market with a common tax structure, instead of 29 fractured markets. One last thing worth noting: petroleum products and alcohol are being kept out of the GST net for now.
- Nine years after the Indian economy was opened up
in 1991, the Atal Bihari Vajpayee government first floated the idea of a simple, transparent and efficient GST regime to substitute the multiple Central and State taxes and cesses. But, like several critical (and often inevitable) reforms in India, the GST took a tortuously long route to reach the cusp of reality — a route marred by resistance, flip-flops and political expediency. April 1, 2010 was the first official target date for kicking off the GST announced by the then Finance Minister P. Chidambaram in the Union Budget for 2006-07.

- Besides improving tax compliance from traders, the GST regime is expected to boost economic growth by a percentage point or two, despite the risk of an initial blip, the government and industry bodies reckon. Investors, often put off by India’s complex taxation structure, should find it easier and more attractive to do business in the country and create an important byproduct for India’s fast-growing, young workforce — jobs.
• **Triple talaq**

• Triple talaq is the recently highly discussed topic of Islamic divorce practice under this system male partner only have to utter talaq three time and talaq being done

• This law make women life more vulnerable to social evil and exclusion

• This practice also not in practice in some Islamic country so india government want to form uniform civil code which is the directive principle of state policy under article 44

• But here Islamic social organization opposing this idea on the name of the minority religious protection that is fundamental right

• Here government can make on two basis that is DPSP can override FR if there is common good

• On the other hand supreme court also can decide on what constitute core part of the religious
RUSA [PIB]

The Rashtriya Uchchatar Shiksha Abhiyan (RUSA), started by the ministry of human resources for the reform and development in high education to make it inclusive.

RUSA is the Centrally Sponsored Scheme (CSS) of the Department of Higher Education, MHRD which aims to provide strategic central funding to State Higher Education Departments and Institutions and achieve the broad objectives of access, equity and excellence.

The State Higher Education Departments and Institutions undertake certain governance, academic and administrative reforms as a prerequisite to be entitled for RUSA grants.

VVPAT machine and transparency in election

Voter verified paper audit trail is the new version of the EVM in which one extra unit of the printing will
be joined by which voter can see to whom his/her vote done

• In this machine printing slip in machine will be displayed for 07 second to verify the vote that person given to any party or candidate

**Verifying the vote**

The Election Commission feels that with most opposition parties having declared their lack of faith in electronic voting machines, VVPAT machines are the need of the hour

- The voter-verified paper audit trail (VVPAT) is a method that provides feedback to voters
- It is an independent verification printer machine and is attached to electronic voting machines
- It allows voters to verify if their vote has gone to the intended candidate
- When a voter presses a EVM button, a paper slip is printed through VVPAT
  - The slip contains the poll symbol and name of the candidate, it allows the voter to verify his choice
  - After the voter views the slip, it drops inside a sealed box linked to the EVM seven seconds later. It can only be accessed by authorised persons

**G.S.-03**

**Forest fire in indian forest**

• Forest fire is the wide area incident that led to vast danger to the biodiversity of the forest
• Forest fire have major reason is the lower down of the biological burden of the forest or hydrological deficit in the forest
• Carrying capacity principle of the biology is the vital for the balance in ecosystem
• Draught situation and heat wave also make it worst case for the forest fire

Air pollution in India

• Cases of the pollution become vicious cycle that can not be reversed and also affect local climate with greater impact on disaster
• So major area of the focus should be prevention of the pollution that is creative idea so we can use more public transportation
• Air pollution in India causes at least a million deaths annually. In Delhi alone, over 30,000 people die every year due to air pollution, the main causes of which are increasing road traffic and factory pollutants, and crop and waste burning.
• One such solution is the creation of high-occupancy toll lanes, or HOT lanes. This refers to reserving one or more lanes on selected roads and highways for
cars carrying more than a single occupant

- its implementation would require important considerations relating to whether it should be enforced during particular hours, or whether the minimum number of passengers required to avail of the benefit should be two or more, or whether HOT lane commuters will pay a lower road toll or will be completely exempt from it, to name a few.

- Drivers are supposed to carry a valid pollution under control (PUC) certificate with them. This is based on the Bharat Stage norms (BS) which are based on European regulations. While the latest BS-IV norms are due to be enforced in the whole country from this month onwards, there is no system for differential toll treatment for higher polluting vehicles and trucks.
Champaran Satyagraha [PIB]

Gandhi came to India after finishing their degree and practice in Africa in January 1915 that day also celebrated today as Pravasi Bhartiya Divas on that day remembrance.

After that Rajendra Shukla of Bihar invited Gandhi to look into the matter of teenkathiya system by Britain colonialism and the situation of the Bihar peasant.

Teenkathiya system means farmer have to grow Britain want crop in 1/3 part of their land.

Britain order to grow indigo in this area for their textile industry because in first world war they loss their indigo producing area.

Constant indigo cultivation also degrade land and Britain not giving satisfied price of that produce.

Gandhi start agitation while district administration order him to leave the district immediately.

Gandhi take help of the student and volunteers to
conduct survey on condition of the farmer and give report to government and solve the issue

Water crisis in south India

- South India now facing severe draught condition with hydrological deficit in soil that led to water crisis
- Major reservoir making empty mark and problem arise about drinking water
- Southern peninsula being hard rock area difficult to get ground water and also major part come under rain shadow area of the western ghats
- El nino and negative indian ocean dipole make situation more complicated since last three year
- Wild life affected most by this situation because of lack of drinking water and forest fire due to lack of humidity in forest due to severe heat wave attack

Channakeshava temple

- This temple situated in belur 900 year old being a
master peace of the hoysala architecture

- The temple was constructed by Vishnuvardhana of Hoysala dynasty and is a monument recognised by the ASI. It attracts thousands of tourists from different parts of the country and abroad.

- Considered to be the first temple of Hoysala style, it was built between 1106 and 1117, according to Srivatsa Vati, a historian and an expert in Hoysala architecture.

- Soon after winning a war in 1104, Vishnuvardhana took up construction of the temple, and according to an inscription, the temple was ready by March 1117.

G.S.-02

❖ Women representatives of Panchayats [pib]

- 73rd and 74th constitutional amendment act formulate local governance body called panchayat system

- Under this 33% of the seat reserved for the women
particularly but ground reality is that majority of this post only held by the women real power used by the male partner

- So empowerment of this elected women needed for that training and skill enhancement workshop can be arranged.

- These women representatives will have to be trained in order to ensure that they take up the responsibility of all the tasks entrusted upon them on being

- The women sarpanches can be helpful in taking these schemes to the people at the grassroots level. These schemes include Fasal Beema Yojana, Pradhanmantri Awas Yojana, Suraksha Bima Yojana, Sukanya Samridhi Yojana, maternity benefits schemes among others. Apart from this, the training programme will help to raise these women to the next level of leadership.
SAUNI Yojana [pib]

- This is the ambitious plan of the Gujarat government for the drinking and irrigation facility from Sardar Sarovar Dam project.
- This scheme specially focus semi arid and arid region of the Saurastra region in Kathiavad peninsula.
- Geographically this region have unique topography with radial drainage system because of central highland area.
- SAUNI (Saurashtra Narmada Avtaran Irrigation) Yojana is the full name of the scheme.

Man and animal conflict

- Ecosystem always make balance by creating food chain and food web through tropic level.
- But population and ambition of the man increases without considering sensitivity toward other living component of the earth.
- In this conflict there are casualties of both side and
recent incident also show the way in which people also affecting the working of the forest department

- When sensitivity toward living being die then conflict and teasing to animal become act of entertainment

**Ice melting and climate change**

- Ice melting and freezing was daily phenomena at the time of the interglacial period about 10000 years ago
- Global warming and green house gas concentration cause ice of the arctic and Antarctic to melt
- Interglacial period also have effect on earth orbit and its movement
- This is the anthropogenic age of climate as recently declared because today climate majorly affected by the human being not any outside influence
The first stage forecast of Southwest monsoon seasonal rainfall was issued by Indian Meteorological Department (IMD) has forecast that quantitatively, the monsoon seasonal rainfall is likely to be 96% of the Long Period Average (LPA).

Monsoon prediction have two factor of the uncertainty the is threat of el Niño and new state of art model developed by the IMD.

But reality is that there is no sured and direct effect of el Niño on indian monsoon.

Indian ocean dipole that is normally known as temperature difference of Arabian sea and bay of Bengal and positive indian ocean dipole have positive effect on indian monsoon.

Following are the factor that have effect on indian monsoon.
• The Sea Surface Temperature (SST) Gradient between North Atlantic and North Pacific
• Equatorial South Indian Ocean SST
• East Asia Mean Sea Level Pressure
• Northwest Europe Land Surface Air Temperature
• Equatorial Pacific Warm Water Volume
• The El Nino — characterized by surface waters of the equatorial Pacific warming up more than half a degree — is known to dry up monsoon rains every six out of 10 years.
• Another climate phenomenon, called the Indian Ocean Dipole (IOD), which refers to a swing in the sea surface temperatures in the western and eastern Indian oceans, is also known to influence the Indian monsoon. A ‘positive’ IOD can counter an ominous El Nino
**VVPAT in election**

- Voter verify paper audit trail is the print like machine by which voter can conform its vote to wanted candidate
- By this machine voter will press button he/she can see to whom vote gone as print paper for 7 second after which this print go to one box that also can be used to verify credibility of EVM which are being questioned recently
- But election commission have no much machine so they want fund from government to purchase new printing machine but government yet not released fund which affect surety of use of VVPAT in next election of lok sabha

**innovation (Navonmesh) in School Education**

**[PIB]**

- Imparting of Quality Education to Students is the crux of the learning outcome process for which we
have to strive continuously and it is the Teacher as well as Parents, concerned departments, Educationist and the society in general has to work collectively.

- Innovation should be in terms of the value development of the student that make society more inclusive and sustainable

G.S.-03

**Panel on FRBM act**

- Financial responsibility and budgetary management act passed by the government under recommendation of the financial sector legislative commission
- FRBM act implemented in state and central government to limit or cap their fiscal deficit
- Fiscal deficit is the gap between government total income and expenditure
- Primary deficit concept arrived from deduction of interest payment from revenue deficit
**Indian wolf**

- Indian wolf mainly found in India subcontinent in semi-arid and arid region
- This notified as endangered in International Union for Conservation of Nature and Natural Resources [IUCN]
- It is also schedule 1 animal under Wildlife Protection Act 1972

**Diabetes in young [PIB]**

- Diabetes is the disease of the blood sugar level abnormality which create high level of sugar in blood
- Diabetes have two type that is type one and type two from which one caused by the lower level of the insulin that is due to lack of physical activity and this make blood sugar level automatically higher
- Type two diabetes involve case of the high blood intake by the person that increase blood sugar level
• We should focus on control of Diabetes in young and said that this is not only a health priority but also a national priority considering the invaluable potential of the youth energy in the making of “New India”.

• Type 2 Diabetes Mellitus, Heart Disease and Cancer have occupied the centre stage. This has, at the same time, also resulted in huge social and economic burden on society which has more than 65% of population below the age of 45 and, therefore, cannot afford any drainage or wastage of valuable youth potential.

• The rapidly spreading epidemic of Diabetes, the more serious concern is upsurge of Diabetes in younger age groups and among hitherto lesser affected sections of the society and lesser affected parts of the country including rural areas and village folk.
• **Roman coin**
  
  Recently coin of roman emperor found in the area of the amarawati which is of 1\textsuperscript{st} century old
  
  This coin told about roman king and found in south india with origin about 1\textsuperscript{st} century CE that means roman have presence in southern india
  
  Study of the coin called numismatics

• **Monsoon forecast**
  
  Monsoon forecast done by the indian metrological department come under ministry of earth science
  
  This department predict normal monsoon for india
  
  That means this year will be good health of economy and ecology
  
  Monsoon of india affected mostly by el nino, indian ocean dipole, temperature of Tibet highland, north west Europe temperature, sea surface temperature of indian, pacific and Atlantic ocean, sea level mean
pressure on south east Asian country

- Good monsoon > good agriculture crop > good farmer situation
- Good rain > higher reservoir level > no inter state water conflict

G.S.-02

- **Voter Verifiable Paper Audit Trail**

- Union cabinet approve demand of grant for VVPAT machine of election commission of indian

- This machine will be used nationwide in general election 2019

- This machine have technique in which when voter vote then he/she can watch paper train for 7 second to verify vote to candidate of need

- This machine can be also helpful in time of checking any tampering in EVM by verifiying trail count
• National Commission for Backward Classes

• National commission is statutory non constitutional body and this commission appointed by president every five year in central level and governor by state level

• This commission report about development and step taken by the governemtn and current scenario of the class
• Inclusion of any caste also suggested by this commission

• Recently government proposed constitutional law to make it constitutional body that means inclusion of caste also need constitutional amendment

⇒ Babri masjid case

• This is being sensitive case of religious which should be decide with great care so it take long time

Behind the ‘conspiracy’ charge
A look at how the charge against BJP leaders and others surfaced and was vetted by the Supreme Court

THE CHARGE
L.K. Advani and Murli Manohar Joshi, along with Uma Bharti, Vishwa Kalyan Saradhi, Rakeshwar, Acharya Giring, Kishore, Ashok Singhal and Vishnu Hari Dalmia allegedly made provocativespeech from the balcony at Ramkatha Kunj prior to the theing of the 15th century mosque in Ayodhya on December 6, 1992 by scores of kar sevaks

OTHERS FACING THE CONSPIRACY CHARGE:
- The day was about 200 metres away from the disputed structure
- Kishore and Singhal have since died

CASE THEORY:
- There were two cases relating to the demolition on Dec 6, 1992
- The Lucknow case, investigated by the CBI, is against ‘injuries of unknown kar sevaks’ and deals with the actual act of demolition and violence.
- The Rae Bareli case deals with the conspiracy charge against BJP leaders for giving speeches to promote enmity.

MATERIAL EXAMINED

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<td>105</td>
<td>Lucknow</td>
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<td>195</td>
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Through the years


OCT 5, 1993: CBI files a composite charge sheet, it accused Advani and other leaders of ‘conspiracy’

MAY 4, 2003: Special CBI court drops proceeding against accused including Advani, Joshi, Uma Bharti, R. Thackeray and others. bifurcates cases 167 and 168

APRIL 10, 2017: SC reviews CBI’s conspiracy charge against L.K. Advani and others

Back in focus
The Supreme Court ruling was in response to a CBI plea challenging an Allahabad High Court order quashing the conspiracy charge

- In reviving the conspiracy case in the Babri case against L.K. Advani and others, and transferring the trial from Rae Bareli to the Lucknow CBI court, the Supreme Court invoked its extraordinary constitutional powers under Article 142

Fixed tenure:
The trial court judge shall not be transferred till the trial is over

Uninterrupted:
The trial will be conducted sans adjournments

Short respite:
For Rajasthan Governor Kalyan Singh, who was the UPA’s CM in 1992, the ruling won’t apply as he has constitutional immunity

- Supreme court by suing article 142 can transfer case
or cases form one court to another one

- Delay in justice is also equal to injustice

**BCIM corridor**

- Bangladesh – china – india – Myanmar corridor to be take place as international highway under china policy of one belt one road and economic corridor for regional connectivity to inclusive development
- Indian might hesitate to join this proposal as china Pakistan economic corridor passes through Pakistan occupied Kashmir
- By this corridor india can have greater access in north east state by connectivity development but this also come with strategic importance of north east as china also have access

**State assistance from another country**

- Under current situation state got its revenue from tax, revenue devolution form center on recommendation of the finance commission, grant in aid, loan but state cannot seek external financial support from external
• Recently cabinet approved proposal to borrow support from outside entity by state with condition of financially sound firm can do that
• This support only can be get under official development assistance [ODA]

G.S.-03

▹ NPA problem in Indian banks
• Current level of the NPA in bank is more than what was in Korea at the time of economic crisis
• When bank do not get interest and principle for 90 day this called NPA and for agricultural criteria is two crop season
• Distressed asset is another concept which include NPA as sub part of it
• Government started S4A, 5/20 rule etc. program

▹ College unrest in india
• This incident taking place due to valueless education
• Unemployment after degree
• Economic and social discrimination and inequality
• Government should not impose law and order but take creative step to mould youth nature and mental status

 Antimicrobial Resistance

• Anti microbial resistance means bacteria develop strength against existing drug that can make bacteria more strong

• Antimicrobial resistance is a serious threat to global public health that requires action across all government sectors and society and is driven by many interconnected factors.

• Over use of high dose or schedule high drug can make it more compulsive situation

• Whole world is now under threat about resistance that to be managed with cooperation n
**Lingaraj temple**

- This temple recently making news because our prime minister and Nepal president visit it.
- Lingaraja Temple of Bhubneshwara is one of the prominent temples.
- It is made in Nagara style and has four halls – for offerings, dance, assembly and sanctuary.
- The present temple was probably built by the rulers of the Somavamshi dynasty as a Shaiva temple but with the arrival of the Vaishnavite Ganga dynasty, the temple was remodelled and elements of Vaishnavism were inculcated in it.
- Thus, the temple deity came to be known of Harihara (Hari=Vishnu, Hara=Shiv), a mixed form of Shiva and Vishnu. The consort of Hari Hara is Bhubneshari.
G.S.-02

**LEMOA**

- Logistical agreement signed between India and US

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**G.S.-03**

**Digital economy with cyber security**

- Government spreading knowledge about digital economy in mission mode but on the other side of the coin, cyber security also needed in matter of payment.

- Big data is the much wealthy resources for any country and also question of sovereignty because if government failed to provide digital security then national integrity also come under threat.

- In Indian constitution provide for fundamental right
of privacy and digital means should also have right of digital literacy and privacy both

**Privatization of water resources**

- **Left view**

Privatisation of water is unwarranted, unjustified and unnecessary. In pushing for it, we are not really addressing the key issue plaguing the water sector, which is a need for better governance. We need democratic, transparent, accountable and participatory governance in a bottom-up approach, on each aspect of the urban water sector where water privatization is advocated.

- Problem includes losses, inefficiency, unreliability, corruption, issues of quality, and mismanagement. All of these are symptoms; the root cause is lack of democratic governance.

- If we look at the experiences anywhere in the world with privatization of water, nowhere has it sustained over a long period of time.

- It is not only to create private system because it is
natural resources which can not be priced and and everyone have equal right on it also this resources to be use with sustainable and inclusive manner

• **Right view**

• Water is an asset of society and cannot be owned by the government, let alone the private sector. The government is the custodian of water on behalf of the people it represents.

• India’s most important water resource is groundwater. It provides 80% of our rural and urban drinking water, as also industrial water and more than two thirds of water for agriculture, which takes up most of our water resources.

• Groundwater in India is governed by 19th century British Common Law, which states that whoever owns the land has the right to draw unlimited quantities of water from below that land.

• It is not adequately recognized that nearly two-thirds of India’s land mass is underlain by hard rock formations. The natural rate of recharge of these
rock formations is very low.

- As the recently drafted National Water Framework Law (NWFL) states, “water is the common heritage of the people of India; an inseparable part of a people’s landscape, society, history and culture; and in many cultures, a sacred substance, being venerated in some as a divinity.

C-DOT develops CCSP (C-DOT Common Service Platform [PIB])

- Government of India’s announcement of Smart Cities project in mission mode has generated a lot of interest. The concept of smart cities is incomplete without intervention of communication and Information Technology.

- A network of wireless sensors, a reliable public communication infrastructure and innovative applications working on big data and analytics will help us realise smart cities.

- Innovative local solutions will have to be found for local problems
G.S.-01

• **Kohinoor diamond**
  - Kohinoor diamond recently making news because people of India want Britain to return diamond
  - Supreme court refuse to hear petition and ask that this come outside of its power
  - Kohinoor was taken by East India company in 1849 from King Dulipsingh of Punjab
  - India have law regarding it and Britain and India is also signatory of the UNESCO convention regarding it.

G.S.-02

• **“Quality Mark” Award Scheme for Dairy Cooperatives initiated by NDDB**
  - NDDB created and managed India white revolution and operation flood related to growth of the milk production under leadership of Vergese Kurian
  - the National Dairy Development Board (NDDB) developed initiative of “Quality Mark” Award
Scheme for dairy Cooperatives to promote and encourage enhancement of safety, quality and hygiene of milk and milk products manufactured by dairy cooperatives.

- It is aimed at bringing about process improvement in the entire value chain from producer to the consumer to ensure availability of safe and quality of milk and products both for the domestic and foreign market.

- **Case of Aadhaar**

  - Central government created unique identification program which include mass population and big data for policy analysis and benefit transfer
  - Unique identification authority created and more than 100 crore Aadhaar has been issued
  - Central government make it compulsory to have Aadhaar enrolled to get benefit of welfare scheme
  - Government present this bill as money bill under article 110 that also under case in supreme court as
lok sabha speaker have final say in case of money bill definition that to be presented after prior president permission only in lok sabha and rajya sabha have limited power in it.

- Supreme court ordered that government can not make it compulsory to enroll Aadhaar as Aadhaar evolve person biometric ID and it is breach of the person right to privacy under right to speech and expression

**UDAN scheme**

- It offers concessions to the airlines to encourage them to fly on regional routes like levies or charges imposed by the airport operators, excise duty at 2% and VAT at 1% on aviation turbine fuel etc
• Airports Authority of India (AAI) is the implementing agency.

• A Regional Connectivity Fund (RCF) will be created to subsidise operations under the RCS.

• The central government will fund 80% of the losses incurred and the rest will be covered by the states.

• This is provided through the Viability Gap Funding (VGF) to the selected airline operators from RCF, and state governments will be required to reimburse the applicable share. VGF will be provided for three years from the date of commencement of operations of such RCS flight.

G.S.-03

✦ Maiden Firing of BrahMos Land Attack Supersonic Cruise Missile

• Indian Navy successfully undertook the firing of BrahMos Land Attack Supersonic Cruise Missile

• This variant of Long Range BrahMos Missile was fired from Indian Naval
• BrahMos Missile has been jointly developed by India and Russia, and its Anti Ship variant has already been inducted into Indian Navy.

**PMGYK**

• ‘Taxation and Investment Regime for Pradhan Mantri Garib Kalyan Yojana, 2016’ (PMGYK) was proposed in the Taxation Laws (Second Amendment) Bill, 2016

• Under this, besides 50% tax, surcharge and penalty, a quarter of the declared income will be to be deposited in interest free deposit scheme for four years.

• The scheme enables people with undisclosed income to come clean

• In addition to tax, surcharge and penalty, the declaring will have to deposit 25% of undisclosed income in a deposit scheme
• This amount is proposed to be utilized for programmes of irrigation, housing, toilets, infrastructure, primary education, primary health, livelihood etc, so that there is justice and equality

☞ MGNREGA

• Adult members of a rural household willing to do unskilled manual work are eligible to seek employment under the act.

• Employment is to be given within 15 days of application for work, otherwise daily unemployment allowance has to paid by the respective State.

• Wages are to be paid according to Minimum Wages Act 1948

• for agricultural labourers in the State unless otherwise notified by the centre

• Equal wages are to be paid to both men and women.

• At least one-third beneficiaries are to be women.

• No contractors and machinery is allowed
Geo tagging

- It is the process of adding geographical identification like latitude and longitude to various media such as a photo or video. Geotagging can help users find a wide variety of location-specific information from a device. It provides users the location of the content of a given picture.
Kohinoor diamond

- Kohinoor diamond recently making news because people of India want Britain to return diamond
- Supreme court refuse to hear petition and ask that this come outside of its power
- Kohinoor was taken by East India Company in 1849 from King Duleep Singh of Punjab
- India have law regarding it and Britain and India is also signatory of the UNESCO convention regarding it
- This diamond actually mined from mining area nearby Golconda and sold to Kutb Sahi King that ruled there nearly 15th to 18th century

Champaran satyagraha

- Champaran Satyagraha was the first Satyagraha started by Gandhiji in India.
- Gandhiji was persuaded by Raj Kumar Shukla to
come to Champaran to see the inhuman conditions of the peasants.

- In Champaran there was an enormous personal increase in the land rent.
- The peasants were obliged to grow indigo and this curtailed their freedom of cultivation.
- The peasants were compelled to devote the best part of their land for growing particular crops as desired by the landlord. They were also required to give their best time and energy to the crops decided by the landlord.
- Gandhi arrived in Champaran 10 April 1917 with a team of eminent lawyers: Brajkishore Prasad, Rajendra Prasad, Anugrah Narayan Sinha. He was ordered to leave Champaran by the local magistrate.
- His refusal led to his arrest. And then government appoint commission to discuss issue and peasant freedom restored
- This was the first movement in which peasant also participated which was biggest force in that time
- Then Gandhi undertook Ahmadabad mill strike
regarding plague bonus, kheda crop failure and revenue, rollet act satyagraha, non cooperation with khilafat, etc. was the major fight to freedom by Gandhi

**Relation between aerosol and monsoonal rain**

- Aerosol is the particulate or solid pollutant matter that go to atmosphere after emitted from combustion activity.
- Recent study show that higher level of the aerosol delay rain because that need higher humidity saturation level and finally when rain come it will be more widespread and heavy.
- Generally cloud droplet will be in the form of the ice and when rain occur due to gravity and humidity saturation that ice droplet melt and release heat that further launched process of evaporation and clod forming.
- By this way cloud size increases and that why more aerosol means more rain.
G-20 group [pib]

- The G20 started in 1999 as a meeting of Finance Ministers and Central Bank Governors in the aftermath of the Asian financial crisis.
- The Group of Twenty (G20) is the premier forum for its members' international economic cooperation and decision-making. It comprises 19 countries plus the European Union.
- G20 represents 85% of global GDP, 80% of international trade, 65% of world’s population.
- In 2008, the first G20 Leaders' Summit was held, and the group played a key role in responding to the global financial crisis

Achievements of NITI Aayog [PIB]
• **Reforms in Agriculture:**
  
a. Model Land Leasing Law
b. Reforms of the Agricultural Produce Marketing Committee Act
c. Agricultural Marketing and Farmer Friendly Reforms Index

• Reforming Medical Education
• Digital Payments Movement
• Atal Innovation Mission
• Indices Measuring States’ Performance in Health, Education and Water Management
• Sub-Group of Chief Ministers on Rationalization of Centrally Sponsored Schemes
• Sub-Group of Chief Ministers on Swachh Bharat Abhiyan
• Sub-Group of Chief Ministers on Skill Development
• Task Force on Elimination of Poverty in India
• Task Force on Agriculture Development
• Transforming India Lecture Series

G.S.-03

✿ Problem of western ghats

• Human population increases
• More and more human settlement and urbanization pressure
• Resources exploitation plus under developed
technology led to pollution
• Climate change and least chance of revival of ecology
• Microclimate got affect mostly

مؤن Property of vitamin C
• Antioxidant, anti bacterial
• Boost immunity as well as helpful in recovery from tuberculosis which becoming major problem of india
• Also help to balance body temperature in heat wave situation

مؤن Migratory bird
• We have frequently hearing about migratory bird that cross continent to reach one place to another like Siberian crane, amur falcon etc.
• They use biological sensor that work as compass for that bird and mechanism of this working called quantum biology
• **Mujiris project**

- The Biennale, which is today known as the People’s Biennale, has become an integral part of the cultural calendar of our country. It has rejuvenated Kerala’s longstanding contribution to visual arts and culture, and cemented Kochi’s status as a cosmopolitan city brimming with potential and ideas.
- Contemporary art is one of the most significant ways of expressing thoughts, emotions, concerns and ideas that are current, that are relevant to us in the time we live in.
- The fact that Kerala, this land of history and tradition, now hosts the largest show of contemporary art in the region, and that too a show that was seeded by government, speaks to the unique ways of this state and its people.
- Kerala has always been known for its secular approach towards art and culture. The Kochi-
Muziris Biennale is a proud symbol of this approach and the sense of oneness and inclusivity that exists here.

• The Kochi Biennale Foundation has made a wonderful innovation in attempting to use art to link the historic legacy of present-day Kochi with the rich cultural influences of its predecessor Muziris, a financial and trade centre that was believed to have been vanished in floods in 1314 A.D. The event's resounding success can be gauged from the fact that it has so far attracted more than a million visitors.

• **Raja ravi verma**

  • Known painter in the time of colonial period and worked mostly in mysuru to give new lease of life to indian painting style
  • Recently in the mark of 170 birthday beyond the arc named documentary also presented
When voter presses EVM button, printer generates a paper slip. This paper slip contains serial number of voter name and symbol of the candidate for whom the vote has been cast.
	paper slip will remain visible to the voter for seven seconds, through a glass covered window. Then it’ll automatically fall in a sealed box.

Later EC can use these slips for crosschecking/physical verification of votes during recounting.

Some parties allege that EVM machines can be...
manipulated. VVPAT is developed to clear an air over authenticity of the EVMs (Electronic Voting Machine). Helps physical verification/crosschecking votes. Will help to resolve the election disputes.

• **Triple talaq and sharia law**
  ✐ Sharia law is the Islamic personal law still effect in india that provide for triple talaq
  ✐ Triple talaq means giving divorce just uttering talaq thrice by husband to wife
  ✐ Recently this topic making news and government want to bring uniform civil code under article 44 that is directive principle of state policy
  ✐ But Islamic group opposing it on the name of the minority personal religious right
  ✐ But court can decide what constitute core of the religious and in pas decision court have also ordered about breach of fundamental right in implementation of DPSP because of common good involved
• **More spending on infrastructure**

  • Why because our infrastructure lack world class quality as well as quantity
  
  • State now after finance commission recommendation of 42 % share pool has more financial power
  
  • Also india have vast geographical diversity so state can decide best suited and infra that should be given priority
  
  • Infra. Give mobilization to the economic activity and make it more vibrant
G.S.-01

- **Landslide activity in Himalaya**

  - Land slide is geophysical activity on which climate have major role with topography
  - When repeated freezing and melting activity taking place than soil or rock bond weaken that is major reason for the landslide high frequency in Himalayan area
  - While east Himalayan region have high humid and rainfall condition that also trigger the activity

G.S.-02

- **NGT – national green tribunal**

  - *It has been established under the National Green Tribunal Act 2010.*
  - *It has been established for disposal of cases relating to environmental protection and conservation of forests.*
  - *NGT also protect forest right of the people associated*
• The Tribunal is not bound by the procedure laid down under the Code of Civil Procedure, 1908, and is guided by principles of natural justice.

• It is compulsory for NGT to solve appeal within 6 month limit of the case filed.

• NGT jurisdiction and power come from following act

  • Water (Prevention and Control of Pollution) Act, 1974

  • Air (Prevention and Control of Pollution) Act, 1973

  • Environment (Protection) Act, 1986

  • The Public Liability Insurance Act, 1991

  • Forest Conservation Act

  • Biological Diversity Act

G.S.-03

• Paris climate deal

• After regime changing in world with ideology and extreme climate event to be continue no one care
about what is going on now

- Paris agreement initiated process of intended nationally determined contribution
- Agriculture becoming vulnerable as whole world food security depend on it and major activity also depend on prevailing climatic situation
- Cases of draught, flood, heat wave and cyclone increasing that is the major sign of changing climate but no sign can be seen from view of institutional framework

**Laffer Curve**

- The Laffer curve shows how tax revenues change when the tax rate is either increased or decreased.
- Typically, it has an inverted-U shape. the argument that high or increasing tax rates will not yield additional tax revenue because members of the workforce will opt to work less in such circumstances, substituting earned income with leisure.
• The curve supports the notion in supply side economics that tax and regulatory burdens can impede growth.

**Extremist attack in sukma**

• Nearly 1/3 district come under attack of the naxalism one of the left wing extremist movement to fight against exploitation of the tribal people

• Government started operation green hunt to control naxal activity in india

• Problem start with development deficit in that area and now they fighting to stop development because infra. Development will lead to tribal exploitation for the resources

---

**Easy targets**

Monday's was the deadliest Maoist ambush this year in Chhattisgarh on the CRPF

- CRPF's 74th battalion troops were ambushed near Kalagathar in Sukma while on a sanitising mission
- Chintaguda-Burkapal-Bheji axis is a hub of Maoist activity

<table>
<thead>
<tr>
<th>Year</th>
<th>2011</th>
<th>2012</th>
<th>2013</th>
<th>2014</th>
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<td>43</td>
<td>55</td>
<td>41</td>
<td>36</td>
<td>72</td>
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</tbody>
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**How it unfolded**

11 AM - Around 100 CRPF men leave their camp to secure a patch of road being constructed between Burkapal and Chintaguda in Sukma

11, 10 AM - They come under heavy fire. Around 100 armed Maoists, including women, were hiding in the thick forests

1 PM - The encounter ends, Maoists lost their weapons and wireless sets. COBRA commandos rush to the spot

1+7 PM - Eleven bodies are retrieved at the scene of encounter while 12 others are found after an intense combing operation. At least seven injured jawans are evacuated to Raipur in a helicopter

**Saga of grit:** Injured personnel of CRPF being airlifted for treatment • AFP
**Indian changing energy scenario**

- Now India wants to reduce its oil import because now sufficient alternative available to India.
- LPG making big role in cooking and industrial area while CNG in transport taking place.
- LNG emerging as major played in the field of transport and have potential but major problem is distribution and storing technology.
- Ethanol also can be get from straw, sugarcane and bamboo.

**LNG**

- LNG (liquefied natural gas) is obtained by cooling natural gas at atmospheric pressure to approximately -162 °C, resulting in a fuel that is colorless, odorless and non-toxic.
- LNG is an environmentally friendly fuel with less number of Nox, Sox and particulate matters, as compared to any other automotive fuel. Co2
emission is also lesser than Diesel.

• LNG engines run quieter than diesel engines.
• Unlike crude oil and crude-derived liquid fuels, LNG spills do not require any remediation of soil, groundwater or surface waters because it evaporates immediately and dissipates quickly into the atmosphere.
• LNG is one of the least expensive transportable fuels
PFRDA [PIB]

Provident fund regulatory and development authority [PFRDA] is a pension regulatory authority which was established in 2003.

It is authorized by Ministry of Finance, Department of Financial Services.

It promotes old age income security by establishing, developing and regulating pension funds and protects the interests of subscribers to schemes of pension funds and related matters.

Atal Pension Yojana (APY) [PIB]

Now this scheme related procedure to be done online mode with the help of the software named E – Pran

Subscriber of this scheme get pension after 60

Anyone can join between 18 to 40 main focus is unorganized sector
• All member of swalamban to migrated to this scheme
• Government 50 % contribution

**BCIM new potential toward globalization**

• Bangladesh – china – india – Myanmar [BCIM] new initiative by china under one belt one road policy
• This highway will provide better mobility among regional coordination and better access to north east state
• This project currently under discussion stage

**Intellectual property right**

• Today is intellectual property right day and year by year IP right umbrella widening with the help of world level protector like WTO and RCEP
• On the medical field human life right much important than just one person IP right because of common good involved
• Section 3 D recently coming into light which dealt
with disallowing ever greening of the patent

- Irrational copy will lead to less research spending and less human interest in innovation

**G.S.-03**

**GOODS AND SERVICES TAX (GST)[PIB]**

1. Benefits:

- GST is a win-win situation for the entire country. It brings benefits to all the stakeholders of industry, government and the consumer.

- It will lower the cost of goods and services, give a boost to the economy and make the products and services globally competitive.

- GST aims to make India a common market with common tax rates and procedures and remove the economic barriers thus paving the way for an integrated economy at the national level.

- Eliminate the ill effects of cascading, improve competitiveness and improve liquidity of the businesses.

- GST is a destination based tax. It follows a multi-
stage collection mechanism.

- GST is largely technology driven. It will reduce the human interface to a great extent and this would lead to speedy decisions.

- GST will give a major boost to the ‘Make in India’ initiative of the Government of India by making goods and services produced in India competitive in the National as well as International market.

- GST is expected to bring buoyancy to the Government Revenue by widening the tax base and improving the taxpayer compliance.

- GST is likely improve India’s ranking in the Ease of Doing Business Index

- GST will bring more transparency to indirect tax laws

2. Salient Features of GST

- It would be a destination based consumption tax.

- It would be a dual GST with the Centre and States simultaneously levying tax on a common tax base.
• The GST would apply to all goods other than alcoholic liquor for human consumption and five petroleum products,

• The GST would replace the following taxes currently levied and collected by the Centre:
  
  o Central Excise Duty  
  o Custom duty  
  o Service Tax  
  o Central Surcharges and Cesses so far as they relate to supply of goods and service  
  o State VAT  
  o Central Sales Tax

• The list of exempted goods and services would be common for the Centre and the States

• Exports and supplies to SEZ shall be treated as zero-rated supplies.

• Import of goods and services would be treated as inter-State supplies and would be subject to IGST in addition to the applicable customs duties.
• The GSTN will also make available standard software for small traders to keep their accounts in that, so that straight away it can be uploaded as their monthly returns on GSTN website. This will make compliance easier for small traders.

• GSTN is one of the non governmental organization help in IT infrastructure of GST owned by private bank

**Jhum cultivation**

• Jhum cultivation is slash and burn farming practice

• Under this practice forest burned down and new field prepared for agriculture

• When this field become less fertile fresh plain prepared

• This practice in india limited to only north east state and this cause great harm to forest cover and existing biodiversity
G.S.-01

• **Different name of the pre monsoon activity**

  • Nor wester in north east state
  • Kal baishakhi in west Bengal
  • Chhery blossom in Karnataka
  • Mango shower in Kerala

G.S.-02

• **PRAGATI [PIB]**

  • Pro-Active Governance and Timely Implementation is the full form of initiative taken by PMO
  • Aimed at addressing common man’s grievances, and simultaneously monitoring and reviewing important program and projects of the Government of India as well as projects flagged by State Governments
  • A multi-purpose and multi-modal platform

PRAGATI platform uniquely bundles three latest technologies:
  • Digital data management,
  • video-conferencing and
- Geo-spatial technology.
- A three-tier system: It also offers a unique combination in the direction of cooperative federalism since it brings on one stage the Secretaries of Government of India and the Chief Secretaries of the States.
- Prime Minister will hold a monthly programme where he will interact with the Government of India Secretaries, and Chief Secretaries through Videoconferencing enabled by data and geo informatics visuals.

**G.S.-03**

**UDAN scheme [PIB]**

- UDAN is an innovative scheme to develop the regional aviation market. The objective of the scheme was “Ude Desh Ka Aam Naagrik”.
- Will cover 200 to 800 flight without lower limit in hill area
- Reserve seat in flight with 2500/- hour rate
- Provide viability gap funding from regional
PAN Aadhaar link to control black money problem

- After supreme court comment on creative use of the aadhar then to just DBT mandatory
- Government planning to link Aadhaar and PAN to stop black money problem that is major economic issue of the time

Voluntary versus mandatory

The question whether the government can insist on citizens having an Aadhaar number has been hanging fire since 2013, with the Supreme Court passing a series of interim orders.

- **SEPT 23, 2013** SC says, “No person should suffer for not getting Aadhaar card in spite of the fact that some authority issued a circular making it mandatory…”
- **MARCH 24, 2014** “No person shall be deprived of any service for want of Aadhaar number in case he/she is otherwise eligible/entitled”
- **AUGUST 11, 2015** SC asks Centre to give wide publicity that it is not mandatory for a citizen to get Aadhaar card; allows its use in PDS and LPG distribution scheme
- **OCTOBER 15, 2015** SC adds Jan Dhan, MGNREGS, EPF and social assistance pension to schemes for which Aadhaar is permitted
- **MARCH 28, 2017** SC Bench says government is free to press for Aadhaar for ‘non-welfare’ transactions, such as filing tax returns and opening bank accounts

- PAN issued by income tax department while Aadhaar issued by the unique identification authority of India
- Mandatory Aadhaar means breach of fundamental right like right to privacy because of failure in mass data security
• Tax evasion means showing less income on book and tax avoidance means taking benefit of the loophole of the law

• Article 139AA deals with special status to delhi as NCT and central government have land and law power with chief minister to be appointed by the president

**Nilgiri pipit**

• Nilgiri pipit is sparrow like bird endemic to western Ghat area and habitation continuously decreasing

• Red data book of the international union for conservation of nature [IUCN] state about less vulnerable, this IUCN prepare list of the flora and fauna that are in danger

**IMF on world economic outlook**

• IMF predict positive side of the world growth and this may see rise in the world growth rate

• Both advanced and developing country will develop in the higher rate than last year this show one
positive sign after 2008 subprime crisis after that world economy was performing near zero rate

- When saving exceed investment than real interest rate tend to lower value
- Nominal interest rate in advanced economy now near to zero so quantitative easing method will not work to stimulate growth of the economy
- Threat of protectionism and anti globalization move by new elected president of the US will also decide the fate of this prediction
- There are rising geopolitical tensions. U.S.-Russia relations have touched a new low. There is a real prospect of confrontation between the U.S. and Russia over the conflict in Syria. Tensions over North Korea have reached a flashpoint. The U.S. and China are at loggerheads over maritime rights in the South China Sea.
Issue of lokpal

- Act of lokpal passed in 2013 but no one appointed till today
- Lokpal selection committee include one chairman, four judicial member and four non judicial member

<table>
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<tr>
<th>Lokpal Selection Committee</th>
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<tbody>
<tr>
<td>• 5 people (PM, Spkr, Oppn-Idr,CJI &amp; Jurist)</td>
</tr>
<tr>
<td>• Free to appoint people even outside the shortlisted candidates!</td>
</tr>
</tbody>
</table>

- So government arguing that no opposition party available because as per rule 10% seat winner can become lokpal

Human status to Ganga river
• Supreme court given in one order river Ganga artificial human being status
• This means polluting river will be also case of breach of fundamental right of the river
• Ministry of water will work as parent for this status called legal guardian

G.S.-03

限定 UDAN

• UDAN is an innovative scheme to develop the regional aviation market. It is a market-based mechanism in which airlines bid for seat subsidies.
• This first-of-its-kind scheme globally will create affordable yet economically viable and profitable flights on regional routes so that flying becomes affordable to the common man even in small towns.
• The scheme would be in operation for a period of 10 years.
• The UDAN scheme will be applicable on flights which cover between 200 km and 800 km with no
lower limit set for hilly, remote, islands and regions which are security sensitive.

- The state governments would reap the benefit of development of remote areas; enhance trade and commerce and more tourism expansion.
- The scheme UDAN envisages providing connectivity to un-served and underserved airports of the country through revival of existing air-strips and airports.
- The operators could seek a Viability Gap Funding (VGF) apart from getting various concessions.
- The scheme aims to boost air travel in Tier II and Tier III cities by capping fares at Rs 2,500 per one hour flight. The Airports Authority of India is the implementing authority of the scheme.

The National Pension System (NPS)

- To provide retirement income to all the citizens
- To institute pension reforms and to inculcate the habit of saving for retirement amongst the citizens.
• All citizens of India between the age of 18 and 60 covered
• Administered by PFRDA
• Simple- opening an account with NPS provides A PERMANENT RETIREMENT ACCOUNT NUMBER (PRAN), which is a unique number and it remains with the subscriber throughout his lifetime.

**smart cities**
• To drive economic growth and create sites of Production Efficiency Consumption Sustainable living spaces
• Smart city plans will be implemented by a special purpose vehicle States/UTs and Urban local bodies will have 50:50 equity in SPV
• Area-based development model
• PPP: Expertise, private players + efficiency

**Bundelkhand**
• Bundelkhand is the region of the Uttar Pradesh and Madhya Pradesh
• This region become special target of the draught due to its interior effect
• Government now planning to provide ken betwa link canal to provide irrigation to this region
• This project will affect panna national park area

**EESL**

• This is the joint venture working for energy efficiency and one of the joint venture of PSU and ministry of energy resources

---

**Nickel zinc device in place of lithium ion battery**

• Lithium ion batteries mainly used in laptop and smart phone device
• This battery can work better for efficiency and safety that is major problem in IT tool failure
Basava Jayanthi

- Bashveswar was a saint of bhakti movement from Karnataka.
- In 12\textsuperscript{th} century, he found against orthodox practices and founded the Lingayat sect of bhakti.

**Triple talaq**

- Islamic personal law which has provision that a husband or male partner can take talaq by just uttering talaq three times.
- This is against the principle of the Uniform Civil Code under DPSP 44.
- But the Muslim board rejected it on the objection of minority religious rights.
- But the court can decide on it according to the core principle of religion.

**United nation human right council**
It is one of the UN body for human right protection responsible for strengthening the promotion and protection of human rights around the globe and for addressing situations of human rights violations and make recommendations.

- it meets at the UN Office at Geneva

- **National Mission on Clean Ganga (NMCG)**

- **Creation of National Mission for Clean Ganga (NMCG)**, as an Authority with powers to issue directions and also to exercise the powers under the Environment (Protection) Act, 1986 and to enable it to carry out efficiently its mandate.

- At the State level, it is proposed to create the **State Ganga Committees** in each of the defined States and also at district level

**G.S.-03**

- **MDR TB**

- According to report in global burden of dieses TB patient is highest in india out of world
India needs more accessible drugs but irrational use of it led to bacterial resistance means now bacteria have no effect of that drug.

Government also launched NIKSHAY e platform to monitoring TB cases and policy.

Multi drug resistant cases need bendaquiline drug that India doesn’t have.

The Mycobacterium tuberculosis bacterium causes TB.

It is spread through the air when a person with TB (whose lungs are affected) coughs, sneezes, spits, laughs or talks.

Since antibiotics began to be used to fight TB, some strains have become resistant to drugs.

Multidrug-resistant TB (MDR-TB) arises when an antibiotic fails to kill all of the bacteria that it targets, with the surviving bacteria developing resistance to that antibiotic and often others at the same time.