DEDICATED MONTHLY MAGAZINE FOR UPSC ASPIRANTS

HINDU NOTES + PIB + PRS
DATE WISE & SYLLABUS WISE

MAY 2017 Part 1 & 2
Compiled Version

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**Thakurani jatra**

- Its a cultural ritual from Orissa
- In this festival people prepare themselves in deity costumes.

**Unsustainable fishing practices**

- Developing countries face problem of the fishing ground depletion due to pollution and climate change.
- Global warming led to effect of the el nino and that ultimately resulted in upwelling effect of fishing production and productivity.

**Real Estate Act comes into force**

- Real estate regulatory and development act came into force.
- Aim is to eliminate urban poverty and housing for all by 2022.
- This legislation come under land subject which is state matter and center made law on it.
- state will also have its own legislation with modified form within six month.
- Real estate regulatory authority and real estate appellate tribunal will come into force within year.
- The Authority have administrative and judicial power.
- 100% foreign investment permitted in real estate sector.

**Drop irrigation**

- Drop or drip irrigation is the water efficient technique by which water can be utilised effectively
• Salinity can be regulated and soil leaching can be managed as well.

• Also Dry area can be irrigated easily.

• This technique also include increase in the production.

Tiger reserve

• Project tiger is implemented by the national tiger conservation authority.

• Tiger reserve established under this scheme.

• Largest tiger population is found in india .

• Karnataka have higher population,Then comes uttrakhand.

SAARC satellite

• Except Pakistan all the SAARC countries are planning to launch combine satellite with the help of the ISRO.

• Mapping of resources, telemedicine and regional IT development will be made in efficient way with the help of this satellite.

The GSAT-09 offers a full range of applications and services in telecommunication and broadcasting: Television, Direct-to-Home (DTH), Very Small Aperture Terminals (VSATs), Tele-education, Telemedicine and Disaster Management Support.

• The 2,230-kg satellite was built by the Indian Space Research Organisation and has 12 Ku-band transponders.

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Ramanujacharya [PIB]

- The main message from Saint Shri Ramanujacharya’s life was inclusive society, religion and philosophy.
- He discovered manifestation of God in Human beings. He considered all devotees of God as equal.
- When caste distinction and hierarchy were recognized as integral to society and religion, every one had accepted their position as high or low in the hierarchy, Saint Shri Ramanujacharya opposed it in his personal life and religious teachings.
- Vishishtadvaita means qualified non-dualism. Ramanujacharya was the foremost proponent of the philosophy of Vishishtadvaita.

Rise in indian ocean level

- Ocean level rise is related to the excess water which is released by global warming.
- Ice melting and flood are major immediate impact.
- Constant rise followed by increase in temperature level.

Lokpal selection

- Even the Law on lokpal was passed before 2 years; government hadn’t taken any step in appointment of lokpal.
- Selection of lokpal is done by the search and select committee which includes leader of opposition.
- Leader of opposition is the prominent member of party who secures second
largest majority in lok sabha with minimum 10 % of the seat.

- This committee include 5 persons i.e. PM, CJI, speaker, opposition leader, eminent jurist recommended by president.

**General Studies-03**

**Tax on farm income**

- Bibek debroy who is a member of NITI aayog suggest to tax farmer of upper levels of income.
- Tax on farmer income is state subject.

**Eight core industries [PIB]**

- Eight core industries includes following list which have major role in WPI:
  1. Coal
  2. Crude Oil
  3. Natural Gas
  4. Refinery Products (93% of Crude Throughput)
  5. Fertilizers
  6. Steel (Alloy + Non-Alloy)
  7. Cement
  8. Electricity

**Fortified food**

- Fortification of food means the process of editing food grains or biological components to make it more nutritious.
- This ensures enhancement of the nutritional value of the food and may help in reducing malnutrition problem.
- Governments new regulation provide guidelines of food fortification.
• Iron deficiency led to anemia/ weakness while vitamin A deficiency will cause skin and vision problem.

• Food standard and safety authority issued rules regarding it.

****Food for thought****
Fortification of eatables is aimed at fighting malnutrition

- What it means
  Fortification is the addition of key vitamins and minerals, such as iron, iodine, zinc, Vitamins A & D, to staple foods such as rice, milk and salt to improve their nutritional content.

- The nutrients may or may not have been originally present in the food before processing.
- It is a simple, proven, cost-effective and complementary strategy in use across the globe.
- The draft Food Safety and Standards Regulations, 2016, prescribe the standards for fortification of salt, oil, milk and rice.

Great Indian Bustard

Scientific name: Ardeotis nigriceps

• Found in north western Indian plain with arid or semi arid region including wetland.

• It is also found in the adjoining regions of Pakistan.

• It is heaviest flying bird.

• According to IUCN, it is Critically endangered.

• It is state bird of Rajasthan.

• Rajasthan government is planning to make breeding center to revive this species.
**Water use in industry**

- Industry come under water intensive sector after agriculture.
- The graphic presentation of the sector wise water consumption is as shown below.

![Industrial use of water infographic](image)

**Blood group and heart attack**

- According to new researches, blood group can predict risks of heart attack.
- Individuals other than O group have high risk of heart attack since they have more blood clotting components.
- More blood clotting component make blood circulation difficult.

**MAY 03 2017**

**General studies 01**

**Tuvalu island**

- It is a small island nation in south pacific
- This island will loss its whole territory by 2070, due to sea level rising as a result of global warming.
- Kiribati, Fiji, marshal island, vanutu, microasia, nuara also will experience similar event.

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• This island contribute less than 1% in global warming but become major victim of the effect global warming

• This leads to migration and refugee status which inturn cause unrest in world.

**General Studies-02**

**Massive open online courses – swayam**

• This is an initiative launched by the HRD ministry to make use of digital technology in the field of the education.

• Under this scheme student can access online learning resources freely at any time.

• It is a MHRD initiative and offers courses for UG, PG and Diploma levels.

• Under SWAYAM, professors of centrally-funded institutions in India such as IITs, IIMs, and central universities will offer online courses to citizens of India.

**VIDYA VEERTA ABHIYAN**

• Union Ministry of Human Resource Development launched the VIDYA VEERTA ABHIYAN.

• Wall of heroes to be created in college in which portrait of the param veer chakra to be painted.

• In college portrait of national heroes of protection and freedom to be created to expand knowledge and inculcate creative idea among youth.

**General Studies-03**

**Peace in heaven – jammu and Kashmir**

• Recent situation in Kashmir draw attention toward continuous down grading of the law and order with national integration.

• What factor invite people to throw stone on guard of people(policing) is the biggest problem.

• Solution needs complete understanding of problem.

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Food fortification

- Addition of nutrition in food by genetic engineering in grains, oil and salt etc.
- This can fight against malnutrition according to WHO vitamin A, iron are the major cause of malnutrition this can be add by this process.
- Iron scarcity in body led to anemia and this have role in low weight and maternal mortality
- Food fortification standard in india is declared by the FSSAI

Tarang Sanchar

- a web Portal for Information sharing on Mobile Towers and EMF Emission Compliance.
- The Ministry of Communications launched here Tarang Sanchar, a web portal for Information sharing on Mobile Towers and EMF Emission Compliances.
- It will go a long way in clearing the myths and misconceptions of public on mobile towers and emissions from them.
- The portal will empower common man to know at the convenience of a mouse click, about towers working in a particular locality and whether they are compliant to the EMF emission norms defined by the Government.
SAMPADA [PIB]

- Scheme For Agro-Marine Processing And Development Of Agro-Processing Clusters is the full form of the scheme.
- Its a part of schemes by the Ministry of Food Processing Industries (MoFPI).
- The objective of SAMPADA is to supplement agriculture, modernize processing and decrease agri-waste.
- SAMPADA is an umbrella scheme incorporating the ongoing schemes of the Ministry like
  1. Mega Food Parks,
  2. Integrated Cold Chain and Value Addition Infrastructure,
  3. Food Safety and Quality Assurance Infrastructure,
  4. Infrastructure for Agro-processing Clusters,
  5. Creation of Backward and Forward Linkages,
  6. Creation / Expansion of Food Processing & Preservation Capacities.
- Food Processing Sector has emerged as an important segment of the Indian economy in terms of its contribution to GDP, employment and investment

Aadhaar and PAN linking.

- Government issued more than 100 crore Aadhaar card for the target benefit transfer and mass data management to help public welfare scheme.
- But mandatory Aadhaar is against persons fundamental right and now government want to use it for better tax compliances.
- Income tax act section 139AA amended to make it mandatory PAN and Aadhaar linking.
• But supreme court opposed it and make it voluntary.

Pay commission

• Pay commission by time established by the government to review payment system in country.

• Recommendation of this commission is advisory to governments of center and state.

• Following categories of worker come under pay commission jurisdiction

(i) Central Government employees—industrial and non-industrial;
(ii) Personnel belonging to the All India Services;
(iii) Personnel of the Union Territories;
(iv) Officers and employees of the Indian Audit and Accounts Department;
(v) Members of the regulatory bodies (excluding the RBI) set up under the Acts of Parliament; and
(vi) Officers and employees of the Supreme court.

Alcohol ban

• Ban on alcohol is state subject but legislature has no power on total ban since its used for industrial and medicinal purpose. That means only human liquor consumption can be banned.

• Extra neutral alcohol is alcohol product that used for the industrial purposes.

Tarang sanchar portal

• A dedicated portal by ministry of communication which will give information about effect of mobile tower and effect of its emission.

• Mobile tower emits electromagnetic wave and by this portal common man can know emission level of tower.

• Standard has been set up in compliance with WHO guidelines.

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Dhole – indian wild dog

- Dhole is name given to indian wild dog that is now in endangered category of IUCN.
- Dhole also listed in wildlife protection act in schedule 2.
- Dholes, with a cinnamon colored coat, bushy tail and an alert gaze, are aggressive pack predators, covering long distances on a hunt.
- Scientist now finding that there are some genetic differences developing between north and south dholes.
- This genetic difference will be due to geographical, climatic isolation between two population.

Brahmos [PIB]

- Brahmos is the joint product of the india and Russia and name given from river moscova and brahamputra flowing in Russia and india respectively.
- This is capable of launching from air, sea, land and sub sea against target in surface and sea.
- Initially range of this missile was 290 KM. According to rule of the missile technology control regime [MTCR], if country want to make cruise missile more than 300 KM distance have to be member of MTCR.
- Now india is member of MTCR and range of this missile extended to 450 KM.

Key features of the National Steel Policy 2017 [PIB]

1. Create self-sufficiency in steel production by providing policy support & guidance to private manufacturers, MSME steel producers, CPSEs..etc.
2. Encourage adequate capacity additions.
4. Cost-efficient production

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5. Domestic availability of iron ore, coking coal & natural gas,

6. Facilitating foreign investment

7. Asset acquisitions of raw materials &

8. Enhancing the domestic steel demand.

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General Studies-02

Swachh Survekshan [PIB]

- Swachh Survekshan-2017 commissioned by the Ministry of Urban Development
- Aimed at capturing improvement in sanitation scenario, primarily based on making cities and towns Open Defecation Free and improvement in processing of municipal solid waste.
- Criteria and important components of sanitation related aspects used for the Survey are:
  1. Solid Waste Management including Door-to-Door collection, Processing and Disposal, ODF status etc
  2. Citizen feedback
  3. Independent observation
- Quality Council of India which conducted the survey

Separate high court for state.

- Indian judiciary have integrated feature which means that there are no power distribution structure like center & state legislative and executive.
- Many states of india doesn’t have separate high court
- Eg: Punjab, Haryana and Chandigarh have combined court
- For creation of new high courts, parliament bill is needed

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Parliament can also increase/decrease powers of high court or supreme court.

**SAARC satellite**

- India and six other member of the SAARC will jointly launch satellite.
- This mission will be completed by the ISRO.
- This satellite will help in climate change, resources management and other information purpose.
- It will be launched with the help of GSLV-F09.
- This will also help in disaster management, communication, telemedicine.
- Pakistan is not a member of this project.

**General Studies-03**

**Bionic technique**

- Bionic is the synthetic replica of the human or animal organ that can work similarly.
- Bionic made with highly flexible technology.
- This will help people with disabilities.
- This technology now under testing phase & will become reality soon.

**E-vin program [PIB]**

- eVIN (Electronic Vaccine Intelligence Network) is an indigenously developed technology system of India.
- This digitizes vaccine stocks and monitors the temperature of the cold chain through a smartphone application.
- The innovative eVIN is presently being implemented across twelve states in India.
- eVIN aims to support the Government of India’s Universal Immunization Programme by providing real-time information on vaccine stocks and flows, and

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storage temperatures across all cold chain points in these states.

• The technological innovation is implemented by the United Nations Development Programme (UNDP).
• To facilitate evidence-based decision-making by making available online real-time information on vaccine stocks and storage temperature through the eVIN application software and temperature loggers;
• Governance: to ensure efficient vaccine logistics management by systemizing record keeping through standardizing stock and distribution registers.
• Human Resources: to empower the states cold chain network by building the capacities of government cold chain handlers.

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General Studies 01

Chenchu tribe

• Mainly found in nallamala hill of Andhra Pradesh in eastern ghat.
• This tribal people always become victim of crossfire between army and Maoist personal
• Recently national tiger conservation authority given order not to given forest right in tiger reserve that given to tribal people by forest right act 2006
• National tiger conservation authority is statutory body under project tiger that implement this project and preserve tiger reserve

The South Asian Satellite – Some highlights

• This is the space diplomacy with soft idea to make india pivot to asia that is emerging concept
• The gift of a communications satellite for use by neighbours at no cost has perhaps no precedent worldwide.
• The satellite, which weighs over 2200 KG has been fabricated in three years at

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a cost of over Rs. 230 crore.

- Its footprint that extends all over South Asia.
- The South Asia Satellite has 12 Ku band transponders which India's neighbours can utilize to increase communications.
- Each country will get access to at least one transponder through which they could beam their own programming.
- The satellite will facilitate DTH television, VSAT links, tele-education, telemedicine and disaster management support. It will provide critical communication links in times of disasters such as earthquakes, cyclones, floods, and tsunamis.
- Heads of Government from all the seven South Asian nations who are benefiting from the satellite, connected via video conference, in a unique celebration of the successful launch.
- This satellite provide information about telemedicine, communication, television and disaster management
- It is settled in oval orbit which is lowest or nearest orbit about 169 KM while farthest is 36000 KM
- achieve effective communication; better governance, better banking and better education in remote areas; more predictable weather forecasting, land monitoring and efficient resource mapping; linking people with top end medical services through tele-medicine; and a quick response to natural disasters.

**Ujjwala scheme**

- Aim to Providing free LPG connections to women from BPL households
- Any Below Poverty Line (BPL) family, whose information is included in the district BPL list prepared by the State government. Can get connection under this scheme.

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General studies 03

Novel molecule to treat cancer

- Cancer is abnormal growth of cell with extreme speed so scientist developed new molecule which bind protein level in cell that stop cell development

NPA and bank recapitalization

- Stressed or non performing asset greatly affect the liquidity of the bank specially public bank due to crony capitalism with mal functioning due to political interference
- Under RBI act 1949 central government have power to manage banking crisis but now central government have given some freedom to public bank to manage problem
- Government also make new rule on recapitalization under performance based system
- Under new act bank can initiate insolvency process

No fly policy

- After rude behavior event coming central government prepared draft policy
- Guideline state for three type of ban from three month to life time period
- India will become first country to have no fly list for aviation security rather than national security
- Ban will be imposed after 10 days of receiving of complaints

GI Tag

- Geographical Indication tag.
- GI tag show the particular geographical origin of the item and that only can be grown in that particular area For example: Kanchipuram Silk Saree, Alphanso Mango, Nagpur Orange, Kolhapuri Chappal, Bikaneri Bhujia, Agra Petha
- Outside of that particular geographical area that product can no be produced otherwise producer will be punished

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• To get GI tag one have to apply with register of GI tag
• GI can be given to agricultural, natural or manufactured goods originating in the particular area.
• GI rights are given to an association of persons, producers, organization. But it is also community right because on particular geographical area group have ownership
• Punishments for violating GI.
• Registration of a geographical indication is valid for a period of 10 years and can also be renewed

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**General Studies-01**

**Triple talaq**

• According to Islamic personal law procedure, male partner can give divorce to his wife by just uttering talaq three time.
• This is totally against the right of women.
• Government must take step to bring uniform civil code under article 44 that is directive principle of state policy.
• But Islamic organization opposing it on the argument that it is against right of minority with religious matter.
• Court can decide matter by giving award on the principle of the core of the religion.

**Kuchipudi**

• One of the classical dance form from south india, originated in kuchipudi village in Andhra Pradesh.
• Carnatic music being performed with prayer to lord ganesha .
• Recently this dance form got world record from a mass kuchipudi event.

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General Studies-02

**Namami gange project**

- It is central government flagship program to rejuvenate and clean Ganga.
- Namami gange council has been set up with central minister and chief minister of Ganga bank area.

**National human right commission**

- It is a statutory body containing one chairman and four other members.
- Chairman should be retired justice of supreme court.
- It can take suo moto action means taking action on its own.

**One belt one road [OBOR]**

- This is china’s ambitious program for the intercontinental connectivity to have economic and cultural integrity
- This is step toward physical globalization
- India is not member of this initiative; because one of its component china Pakistan economic corridor pass through PoK that is a breach of india sovereignty.
- Recently china proposed Bangladesh – china – india – Myanmar corridor
- Under this corridor Chinese goods will get easy access to world market.

General Studies-03

**Thalassemia**

- It is one of the blood genetic disorder.
- It is characterized by abnormal production of hemoglobin in body.
- That means more oxygen demand in body and scarcity of oxygen level will led to destruction of red blood cell.
- This disease have no cure and affected person have to transfuse blood at regular interval
Chloro methyl pyridine

- It is a chemical, intermediately used in making of the insecticide and pesticide.
- Handling of this chemical require higher safety.
- It led to serious eye and skin damage while in touch.

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General Studies 02

South Asia satellite

- ISRO prove the diplomatic power of the India again by launching of south asia satellite with GSAT.
- SAARC nation will get free services for communication, disaster management, DTH etc.
- But Pakistan is not member of this initiative.
- OBOR initiative started by China as regional connectivity scheme all the SAARC member joined this except India.

Chabahar port

- It is situated in makaran region of the Iran in gulf of Oman.
- It is only Iran port which have direct sea reach.
- Zaranj – delaram highway which constructed by India will give connectivity with Afghanistan.
- This will work as competitor of gwader in Pakistan that is part of China Pakistan economic corridor.
- Recently Japan want to join this initiative while China propose India to join CPEC and this two port will work as sister port.

Asian development bank

- It is regional development bank head quarter in Philippines.
- This institute working for Asia Pacific development and poverty eradication.

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• Membership not limited to Asia only.
• ADB works similarly on the model of the world bank and board of director also elected on the basis of voting power of the member.
• This institute provide both soft and hard loan, that depends on loan seeker.
• Bridge on Ganga river in Bihar also constructed with help of ADB and now ADB want to open its regional hub in Delhi.

Socio economic caste census

• Now central government wants to make SECC data as legal proof for the poverty line and benefit of welfare scheme.
• Tendulkar and lakdavala both parameter of poverty have its own problem so for reducing inclusion and exclusion error, this idea will be helpful now every state government also taking interest to conducting SECC.
• SECC conducted last in 2011 in both rural and urban area by ministry of rural and urban development respectively.
• There are different criteria of poor in rural and urban area.

‘Swachh Bharat Mission’.

• Started as pet scheme of this government has two separate part for rural and urban component.
• Prime goal is to bring cleanliness by awareness drive and open defecation free society.
• World bank also provided support to this scheme.

General Studies-03

Renewable energy sources

• India promised maximum energy generation form this sources under INDC.
• In which solar power will have highest proportion. Now solar panel or photovoltaic cell being made from silicon but recently scientist researched new component called perovskites that has many benefit over silicon material.
• This is the beginning the era of hydrogen as safe and stable energy option

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because solar and wind power can be used to produce hydrogen and store them which can be use in future as grid filler in solar of wind power.

- Cold fusion technology also taking momentum with the help lithium, nickel and hydrogen.

**Market failure for agriculture produce**

- If it is tomato, chili, onion, cotton or grapes; when there is harvest time price always tend to drop at minimal level so farmer even can no get price of break even point, that is cost of production.
- Commercial crop have no minimum support price like chili.
- Government have initiated agriculture produce market committee under which mandi has been set up in whole country and farmer only can sell their product.
- But association and cartel of commission agent and country demand supply cycle fault led to poor condition of farmer.
- E- NAM is new initiative under which online farm produce marketing can be done on pan india basis but this plan is under implementation stage.

**New guidelines for NPA**

- Recently government passed resolution under RBI act 1949 to give power of the NPA problem solution.
- Now RBI and bank can take tougher step on NPA even insolvency procedure can be start.
- Due to NPA problem credit growth of the bank record low of the decade and this must be revive to get economic pace of development.
- Government launched S4A, strategic debt reconstruction, joint lender forum, mission indradhanush, gyan sangam, bank board bureau.
General Studies -01

Rabindranath tagore
- Son of debendranath tagore and leader of brahmo samaj.
- First asian nobel prize winner for work of gitanjali.
- Amar sonar bangla that is national anthem of bangladesh written by him.

General Studies-02

Tumuni the model village of swaraj
- Tumuni village from Orissa give us idea about mahatma gandhi dream village.
- This village have village management committee that take decision on village affairs and justice is so fair no one have to go police station.
- Village people manage water conservation and forest protection drive with self discipline.
- Village also have collective fund that to be distributed as loan to farmer and no one have default record.

Discom
- Ujwal discom assurance yojna which aim to debt management of the electricity distribution firm.
- State government will take 75 % of the discom debt to revive position of companies while remaining 25 % will be collected through issuing bond.
- Scheme is optional for states to join.
- This will insure better electricity production and 24/7 electricity service.

MNREGA{ PIB}
- Government propose to tap fund in MNREGA to rejuvenate saraswati river that is the paleochannel.

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Paleo channel means, the river channel remains that are found in particular area which is not in existence like saraswati river, chandrabhaga river near UNESCO heritage sight konark sun temple.

- Comes under Rural Development ministry.
- Promises minimum 100 days of unskilled manual work To each rural household. (not to each person).
- 1/3rd women participation.
- Unemployment allowance, if you can't get work within 15 days.
- MNREGA Wages are linked with CPI inflation for Agricultural.

**General Studies-03**

**WPI {PIB}**

- Published by the economic advisor in ministry of commerce and industry.
- WPI include fuel. Metal, food, chemical, mineral, chemical, coal, electricity etc.

**Kanampuzha river**

- Kanampuzha river got its new birth after haritha keralam project for river rejuvenation
- People voluntarily joined this march for sustainable water conservation as south india this year under severe draught condition.

**Indigenous water purifier**

- Indigenous water purifier developed that called tamras.
- This device use copper that is capable to remove pathogens from water.
- Other disease bacteria also destroyed if water keep in copper vessel and this techniques called chemical prevention therapy.

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General studies 01

Buddhism the way of life

- Buddhism is a religion indigenous to the Indian subcontinent
- Siddhartha Gautama, who is commonly known as the Buddha is recognized by Buddhists as an awakened or enlightened teacher who shared his insights.
- Help sentient beings end suffering through eliminating ignorance by way of understanding and seeing dependent origination and eliminating craving and thus attain the highest happiness.
- Buddhism reached its peak under the Mauryan Empire (322-185 AD).
- Ashoka gave royal patronage to Buddhism and made it a pan-Asian religion. He sponsored Buddhist missions.
- Siddhartha Gautama was born in Lumbini in modern-day Nepal, around the year 563 BCE, and raised in Kapilavastu.
- *Mahayana* The followers of Mahayana believe that Buddha taught universal salvation. This form of Buddhism is followed in Ladakh, Sikkim and Himachal Pradesh.
- *Theravada* The Theravada Buddhism is better known as the earliest form of Buddhism. The ‘Thera’ means old and ‘Vada’ means school. It has a widespread following in Sri Lanka and Southeast Asia

Zonal council

- Five Zonal Councils viz. Central, Western, Northern, Southern and Eastern have been established under the State Reorganization Act, 1956.
- These Zonal Councils are advisory bodies and may discuss any matter in which some or all of the States represented in a Council, or the Union and one or more of the States represented in a Council
- The Zonal Councils aim to discuss and resolve many substantive issues of

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development concerning regional interest and national programmes through its consultative mechanism.

- Zonal council is statutory body and presided by the home minister as chairman and chief minister being member of council

**General Studies-03**

**Amur falcon**

- A Migratory bird from Russia.
- Every year, in October, they arrive in northeast India from Siberia en route to their final destination— Africa.
- During their flight, they stop the jungles of Nagaland for a while, for food and rest.
- Recently satellite tagging of the birds provides data that this bird now stops in South India instead of North East India though the reason behind this is not known.

**Bishnoi community**

- This community of Rajasthan give us idea how man and animal can live together.
- Amrita devi was wildlife conservator and government give award to person who try to save wild life without fear of life.
- The Bishnoi community of Rajasthan is known for its beliefs associated with nature worship and wildlife conservation.

**SPARK initiative**

- Sustainable progress through application of research and knowledge [SPARK] is the synergize programme of government to use more and more technology for better human lives.
- The Department of Science and Technology and Department of Biotechnology are purely funding and outreach organizations.
- The Council of Scientific & Industrial Research (CSIR) has a special and tricky mandate which involves interaction with industry.
• The Department of Atomic Energy, Defence Research and Development Organisation, Department of Space and others are into mission-mode projects. There is hardly a government department or ministry that science does not touch.

• India science fall in the prey of the multi institutionalism with policy paralyses though institute like ISRO and DRDO played well with high mark of success

Out of pocket expenditure

• In india government spending on health sector is very low that make poor people to spend more in health sector.

Masala bond

• 'Masala Bonds' are Indian rupee denominated bonds issued in offshore capital markets which issued to offshore investors settled in dollars
• therefore, the currency risk resides with investors.
• used to refer to rupee-denominated borrowings by Indian entities in overseas markets.

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General Studies 01
Buddha Jayanti Celebrations [PIB]

• The Buddha Jayanti comes on the Vaisakha Purnima, that is, on the full moon day of the month of Vaisakha according to the Indian lunar calendar.

• This is the most important occasion for Buddhists, celebrating the Gautama Buddha’s birthday, enlightenment and Mahaparinirvana on the same day.

• India is the origin of many world religions including the Buddhism.

• Buddha’s entire events of life took place in India.

• His teaching of Karuna, compassion and Maitri, loving kindness, gives an equal perspective towards all sentient things including human beings; within which no classes are allowed.

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India government take lots of step to revive Nalanda one of the ancient Buddha seat and revive it. Nalanda means "giver of knowledge".

**General Studies-02**

**Foreign fund for political parties**

- Under foreign contribution regulation act and representation of peoples act ban foreign fund to political parties.
- Now government want to bring amendment to this act but it will not implement on retrospective donation.
- Parties who got foreign fund should will have to answer in court.

**Triple talaq**

- Hearing will begin in the case of shayra bano v/s union of india popularly known as triple talaq case.
- Supreme court will discuss on the point of triple talaq, nikah halal and polygamy.
- There are two ways for supreme court like women welfare and minority welfare and which will be chosen by supreme court
- It is clear that either of selection will invite major constitutional question and petition in supreme court and supreme court have to established one side judgment with constitutional validity as being guardian of constitution.

**General Studies-03**

**Draught and its effect on environment**

- Draught leads to imbalance of atmosphere & ecology
- ultimately food chain gets affected.
- Animal starve to death and this will also induce man and animal conflict.
- There are many type of draught like monsoon draught, agricultural draught, hydrological draught etc.

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DBT in support price

- Kerala government decide to provide direct benefit transfer under support price regime.
- Under this system farmer can sell their produce at market price and compensatory price to be paid by government direct to the account of the farmer.
- This will decrease time of transfer and paper work plus benefit to be given to only targeted person.
- This initiative will give farmer to open account in bank and do regular transaction.
- more accounts means, rural area also have bank branch due to sufficient customer that will attract private bank.

MDR TB

- According to recent study by lancet cases of MDR TB is increasing in india and now india is biggest home for TB
- Multi drug resistance means patient have no sing of revival despite course of drug.
- This need bendaquine drug that developed by US based firm but indian patient can not afford it and indian government banned it due to fear of XDR TB.
GM mustard

- Recently scientist have developed Dhara mustard hybrid [DMH 11]
- Regulator to give permission of GM crop is genetically engineered crop approval committee [GEAC]
- After the approval from environment minister got final approval
- This will enhance nutritional value of the crop
- Genetically modified crops have following benefit
  1. virus tolerance
  2. insect resistance
  3. herbicide tolerance
  4. drought resistance
  5. yield increase
  6. nutrition enhancement

Factor affecting indian monsoon

- indian monsoon having world’s most complex weather phenomena on which international model working but no one have 100% accuracy
- el Niño, indian ocean dipole, Tibet temperature, south easterly jet wind, etc

SC on polygamy

- SC start hearing on triple talaq
- Currently Muslim man do not have to go court for talaq but women have to go
for their right

- Religion and fundamental right of women is different thing that should not be mixed for any purpose.

**General Studies-03**

**Augmented reality**

- It is algorithmic technique in which by use of camera we can understand or decide emotion or feeling.
- This technology convert real life world experience
- This will help in technology mission completion and maintenance

**e-Krishi Samvad [PIB]**

- an online interface Farmers and stakeholders can directly approach ICAR with their problems
- Appropriate solutions from specialists will be provided via SMS and Web
- e-Krishi Samvad is internet-based interface and is a unique platform that will provide direct and effective solutions to the problems faced by farmers and stakeholders in the agriculture sector.

**WPI and CPI**

- WPI includes three components Manufactured products >Primary articles >Fuel and power
- The WPI basket includes 676 commodities in total- all of these are only goods and whose prices are captured at the wholesale/producer level.
- It is measured by Ministry of commerce and industry with base year as 2011-12
- CPI inflation in India is calculated at the consumer level also by the mean of CPI.
- CPI Industrial Workers, rban Non- Manual Employees, Agricultural Labour, Rural Worker

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In India, RBI uses CPI (combined) released by CSO for inflation purpose with base year as 2012.

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General Studies 02

Sutlej Yamuna link canal

- It is a type of river linking canal project to irrigate Haryana, Rajasthan, and western Uttar Pradesh.
- This canal originates from Punjab but Punjab refuse to allow construction.
- This construction right for Haryana is allotted from Punjab and Haryana reorganization act.
- Indira Gandhi canal is also a major canal work, to provide irrigation and drinking water to western Rajasthan that also supposed to get water from Sutlej in harike wetland.
- Water is union list subject so central government should solve issue with mutual benefit.

China belt and road forum

- After virtual globalization, china start a move to physical connectivity without political barrier.
- that ambitious project is named as belt and road initiative (BRI).
- This include intercontinental road and rail network in Eurasian region.
- China Pakistan economic corridor is also part of it that passes through Pakistan occupied Kashmir (POK).
- China also develops gwader port in Pakistan that is deep seas cold water port.
- India also developing chabahar port as part of the in Iran to get connectivity with Afghanistan also through delaram – zaranj highway.
UDAN scheme

- Regional air connectivity scheme by the aviation ministry to have more small city on air transport atlas.
- This scheme also known as ude desh ka aam nagrik.
- Government will levy cess on national important traffic route to provide viability gap funding for this project.

General Studies-03

Janaushadhi Pariyojana [pib]

- A Silent Revolution in achieving Health Security by providing Affordable, Quality Medicines for all.
- Today India is considered as the World’s Pharmacy
- our Pharma sector is growing at a pace of 20-21% and India is exporting quality generic medicines.
- In this scheme medicines, surgical and consumables in all therapeutic categories viz. Anti-infective, Anti-diabetics, Cardiovascular, Anti-cancers, Gastro-intestinal medicines, etc. will be covered.

Tejas [pib]

- Tejas, the Light Combat Aircraft developed by HAL successfully demonstrated an Air-to-Air Beyond Visual Range (BVR) missile firing capability by releasing Derby Air-to-Air BVR missile in RADAR guided mode.
- The missile launch was performed in Lock ON after Launch mode for a BVR target in the look down mode.
- The objective of the test was to assess the Derby integration with aircraft systems on-board Tejas including the aircraft avionics, fire-control radar, launchers and Missile Weapon Delivery System and to verify its performance.
- The test was conducted on at the Interim Test Range (ITR), Chandipur.
Pradhan Mantri Ujjwala Yojana (PMUY) [pib]

- It is first welfare scheme by the ministry of petroleum to provide gas connection to BPL women.
- This scheme also aim to control indoor pollution that create asthma problem among women.
- This will also increase working time of the women as they are not required to go for collecting wood.

Masala Bond [pib]

- Masala bond is simple called rupee dominated bond in which indian entity can issue bond in foreign market with rupee face value.
- Any statutory body also can issue this kind of bond that will increase foreign investment in india rupee.
- Recently national highway authority of india have issued masala bond in London stock exchange.
- This bond issue regulated by the SEBI

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General Studies 01

Pre monsoon activity

- By the mid may landmass of indian sub continent intensively gets heated..
- This creates low pressure area.
- Without moisture laden wind from indian ocean, monsoon can not burst.
- Pre monsoon shower occur in various part of country like:
  1. Mango shower occur in kerala and Karnataka that help in early ripening of mango.
  2. Blossom shower helpful for coffee flower in Karnataka.
  3. Nor wester is evening calamity for Bengal and assam in the month of baisakh so it is

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also known as kalbaisakhi that are helpful in rice and jute cultivation. In assam it is known as bordoiseela [bardoli seerha ].

**General Studies-03**

**Great Indian Bustard**

- It is found exclusively in north-western plains particularly parts of Rajasthan and also Pakistan.
- It is one of the heaviest flying birds.
- It is critically endangered bird.
- The reasons are depleting habitat, i.e. grasslands especially due to development of infrastructure intrusions.
- It is the state bird of Rajasthan

**Himalayan Pollution**

- Recently scientist found traces of the pollution in Himalayan area with content of sulfur in soil.
- Tourism and political border management is biggest threat to this ecosystem and environment.
- Indian diesel contain some of the highest sulfur content in the world.
- Accumulation of sulfur in soil will led to soil acidification.

**Blackbuck**

- Natural habitat of this dear species is grass land of coastal, hill and desert area.
- Also found in north west india called velavadar national park dedicated to this animal.
- Hunting for meat and habitat loss is big threat to this animal

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General Studies 02

Preferential trade agreement [PTA] [pib]

• Under this regime of international trade, partner country will get some advancement in trade terms.
• According to this agreement country may not get tariff and tariff benefit in international trade.
• This regime comes under preview of WTO regime and this agreement mainly valid in the case of bilateral relation.
• This agreement aims to help least developed or developing country

International court of justice

• International court of justice is the principle judicial component of the united nation.
• Its headquarter situated in hague city.
• Justice of this mechanism elected by the UN general assembly and security council for nine year term.
• However this institution can not take suo motto action.
• Also give legal advise to UN on demand.
• This institute is in news recently since india adopt this way to get kulbhushan jadhav back from Pakistan custody.
• Russia recently quite this platform.
• This platform was established under Vienna convention and Pakistan also party to it.

Doctrine of panchseel

• This doctrine was signed between india ,China and Myanmar in 1954 as five
principle of peace and sovereignty.

- This principle formed the basis of non-alignment policy and India started a league of its own.
- It was agreed that no-aligned country could enter into a defense treaty with any country in the context of super power rivalry.
- It gave the country a boost and she was able to fight against all evils of the time and went on with its preaching’s.

**General Studies-03**

**Uter Transplant**

**TRANSPLANTING A UTERUS**

1. A woman with an absent or diseased uterus is the recipient.
2. A mother, sister or daughter can be a donor.
3. Well before surgery, the recipient’s eggs are fertilised with her partner’s sperm and the embryos frozen.
4. The baby is delivered via C-section. Soon after delivery, the transplanted uterus is removed surgically.
5. After a year, the frozen embryos are placed in the recipient’s uterus.
6. In the first phase, the donor’s uterus is removed and transplanted onto the recipient. Each surgery takes nearly 6 hours.

**The debate**
- It’s a temporary solid organ transplant.
- It’s not a lifesaving procedure.
- Surrogacy or adoption are more viable options.
- Not cost-effective.

**Benefits**
- If successful, it will be a surgical feat that will create medical history.

**History**
The first uterine transplant was carried out in 2002 in Saudi Arabia, and the second one in Turkey in 2011. Both were cadaveric transplants wherein the uterus was taken from a brain dead patient. However, both transplants failed due to rejection of the organ. In 2014, Dr. Mats Brannstrom carried out the first successful live donor uterus transplant in Sweden. Till date, he is the only doctor to have carried out successful uterus transplants.
Genetically modified mustard

- Delhi university has developed this mustard variety to that genetically engineering appraisal committee [GEAC] has given approval.
- After that environment minister approval is also needed.
- GM crops also have benefit like draught resistance, insect proof, more nutrition, more production, etc.

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General Studies-01

Triple talaq

- It is one of the Islamic personal law under which male partner can divorce his wife by just uttering talaq three times.
- This made women social security vulnerable.
- It is a breach human right of women.
- Government want to stop this and established uniform civil code under article 44 of constitution i.e. DPSP.
- But Muslim group opposing it on the name of personal and religious right of minority.
- Now case is in court and court will decide by applying principle of core area of religion.
- Court is not only guardian of constitution but also guardian of minority right.
- Even Bangladesh and Pakistan formed law and made triple talaq illegal.

General Studies-02

Vienna convention

- It’s a treaty that came into force in 1964
- This convention have rules and regulation about treatment of the diplomat and their right

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• According to this convention diplomat have legal privilege so they cant face prosecution
• Recently this case making news in the matter of kulbhushan jadhav

**Belt and road forum**

• China concluded pan asia road and rail network initiative that also called belt and road initiative
• India has boycott this meeting giving below reason
  1. A part of this china Pakistan corridor initiative pass through POK.
  2. Major part pass through very unstable environmental system ie, Himalayan mountain.
  3. there are no clarity on agenda of china behind this project.
  4. this connectivity make Chinese goods dumping easy.
  5. china can effect internal indian political situation, especially in north east state.

**General Studies-03**

**cyber security**

• Ransomware named malware affected many thousand computer all over the world.
• According to CERT IN indian computer system not yet affected by this malware.
• Financial institutes and other digital institutions have tighten their security norms.

**Change in microeconomics data**

• Government recently changed base year in IIP and WPI to 2011-12 from 2003-04.
• New weight also given that will present more real picture as changing consumption scenario.
• This date collected and organized by the central statistical organization [CSO].

**Carbon tax**

• it is one type of de- motivator aimed to curb pollution and global climate changes.
• this mechanism evolved during Kyoto protocol in form of carbon trading, carbon offset etc.
• carbon tax work in both side like this decrease pollution on the other side can be use to compensate effect of climate change that is adaptation.
• work should done form international platform like WTO and UN.

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**General Studies 02**

**G20 [PIB]**

• It is one of the economic forum of the finance minister and central bank governor within country of WTO.
• It comprises 19 country plus European union in which india is also member.
• G20 represents 85% of global GDP, 80% of international trade, 65% of world’s population.

**EPFO[PIB]**

• It is a statutory body under Employees Provident Fund and Miscellaneous Provisions Act 1952.
• It administer The Employees Provident Fund scheme, The Employees’ Pension Scheme,The Employees Deposit linked Insurance scheme.
• It is administered by a Board known as Central Board of Trustees and Labour Minister as head.

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**General Studies-03**

**Sagarmala[PIB]**

- China’s String of Pearls aims to surround India by developing ports in neighboring countries.
- There is a possibility to convert them as military base in a later stage.
- But Project Sagarmala only aims to improve India’s maritime infrastructure by modernizing existing major and minor ports of India and setting up new ports.
- Setup Sagarmala Development Authority (Similar to National highway authority of India).
- Will get money via Maritime development cess.
- Will improve ports, shipping industry, inland water transport, coastal shipping. PPP and FDI to gather more investment

**DDUGKY[PIB]**

- By this scheme rural entrepreneur will get benefit.
- Full form of this scheme is Deen dayal upadhyay grameen kaushal yojna.
- It is sub scheme of national rural livelihood mission

**SAUNI Project[PIB]**

- SAUNI Yojana is multipurpose project that aims to solve the water problems of a parched Saurashtra region of Gujarat.
- Under this project dams in the Saurashtra region will be filled with excess water from the Sardar Sarovar dam.
- Farmers can reap both Kharif and Rabi crop — as opposed to Kharif crop cultivation so far — once the project makes more water accessible for agriculture.
- SAUNI project involves making pipe canals instead of the conventional open canals which has led to no acquisition of land for the project.

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Karnataka now have state butterfly

- Trend continue after Maharashtra first selected state butterfly now Karnataka also chosen.
- Southern wing butter fly is the state butterfly of Karnataka.
- This butterfly have red and yellow color that resemble state official color.
- This step doesn’t include any special protection step but surely this will increase people awareness about value to small element in ecosystem.
- State animal or bird like status given by the state wildlife board.

Cyber attack

- Recently at least 120 country become victim of attack of wannacry software that affect mostly old and outdated Microsoft system.
- This is ransom ware type of malware that means this malware will decrypt computer and asked money or bit coin to encrypt the computer.
- Even government and banking system become victim that make us realize about vulnerability of our big data and threat to electronics governance.
- This malware originally developed by national security agency of US but some shadow broker has spread it in public.
- Microsoft stated that it is wake up call for cyber security preparedness.

Gold import major problem

- According to data indian gold import increase threefold.
- This make indian balance of payment worst because majority of import include gold and petroleum.
- Payment problem also create deficit and government try to financing it.
- That means welfare fund go to another way and equitable distribution of resources disturbed.

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Alzheimer

- It is one of the human brain disease.
- Scientist has recently developed chip that help to develop brain cell and will also helpful in disease like Parkinson.
- This micro chip with the help of nano technology will help patients.

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**General Studies 02**

**Article 142**

- Article 142 gives power to supreme court to pass any guidelines/decree or order to complete justice process.
- This means SC would also have executive or legislative power just by its order.
- Eg: court have given vishakha guidelines, national anthem playing in cinema and liquor ban on highway periphery.
- This article is said to be used as judicial overreach or over activation.

**Rail swaachta report**

- Survey conducted by quality control of india and IRCTC
- Three parameter playing major role viz, direct survey, passenger review and third party data.

**General Studies-03**

**Organic chemical [pib]**

- Recently cabinet committee approved restructuring of Hindustan organic chemical plant.
- This plant produce Dinitrogen tetroxide (N2O4).
- Now this plant will be used by ISRO as N2O4 useful in space application.

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MGNREGA

- Mahatma Gandhi national rural employment guarantee act is for the rural employment.
- Under this scheme every household given chance of 100 day employed wages in an year.
- Under this scheme employment should be provided in 15 days of job card issue otherwise unemployment benefit to be given.
- 33% worker to be reserved for women.
- According to real data there is more than 55% women participation.

Cabinet approve new nuclear programme

- Cabinet committee chaired by prime minister approved new nuclear program with major aim is to boost indigenous technology.
- 10 pressurized heavy water reactor with 7000 mega watt capacity was approved by cabinet.
National technical research organization

- This is statutory organization under intelligence act.
- This organization have same status as intelligent bureau/ research and analysis wing.
- This organization give information to prime minister office regarding intelligent news and give security advice.

Financial position of state

- Indian economy is already facing problem from the non performing asset problem and this problem literally became chakravyuha challenge for india.
- Many step has been taken but issue of mounting debt and stressed asset also in rising. This stressed asset include NPA + default + transferred to bad bank.
- Data showed that in previous year 29 state registered financial performance being worsened with more than 3% deficit.
- This is due to increasing liability by centrally sponsored scheme, UDAY and demonetization