

(Please do not write anything except the question number in this space)
कृपया इस स्थान में प्रश्न संख्या के अतिरिक्त कुछ न लिखें।

UPSC

Amurag Singh

1910159272

उम्मीदवारों को इस खण्ड में नहीं लिखना चाहिए।
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Ans 2 long term Capital gains Tax is levied on the assets owned for more than 1 year after acquisition from stock market.

Securities transaction tax is levied during the trade is happening.

Changes in Budget 2024-25

- ① securities transaction tax (STT) which was 0.1% has been ~~reduced~~ increased
- ② long term capital gains tax (LTCG) has been ~~increased~~ increased but exemption limit has been raised.

Impact on savings & investment

- ① The speculative trading will reduce thus increasing saving and investment money.
- ② The increase in exemption amount

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will result in saving despite hike in LTCG & hence more investment.

- ③ 90% of people look on futures and options trading impacting their savings. Hike in STT will reduce this.
- ④ The investment by Foreign Portfolio Investors is expected to rise.
- ⑤ The savings amount in banks is expected to rise as stock market becomes less lucrative.

The tax rate hike comes as a move to protect & deter customers from risk of future & options trading however this must be accompanied with education regarding stock market.

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Ans 2 Inclusive growth refers to a growth, fruits of which are equitable shared among all.

Recent change: "Reaching the last mile" has become a priority of government with aim becoming empowerment i.e. removal of barriers rather than just inclusion in schemes.

Fostering inclusive growth

- ① Financial inclusion has increased (Banking) as scope of SAM trinity has increased with accounts being opened in the standard of Crores.
- ② Schemes for credit inclusion like Kisan Credit Card have reached last mile i.e. the small & marginal farmers.

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③ PM-SANMAN launched for PVTG development by collaboration of 7 ministries and allocation of ₹ 25000 cr in a case in point.

④ Pension inclusion through Vay Vandana Yojana, Atal Pension Yojana

⑤ Insurance inclusion through PM Fasal Bima Yojana integrated with technologies like WFNDS, CROPIC etc.

⑥ Healthcare inclusion through PM Jan Arogya Yojana, PPP models for open hospital cum medical colleges

⑦ Education inclusion through ERPLYC Model schools, ~~RPE~~ NEP 2020.

Challenges → ⑧ Digital literacy and infrastructure is lacking stopping inclusion
→ ① Regional disparities are being seen in implementation

This shift has fostered inclusive growth by being multidimensional & wide in line with the aim of "Vision 2047"

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Ans 3 India has become the largest irrigated land containing country however still most agricultural land remains rainfed creating challenges.

Importance of quality irrigation

- ① Makes agriculture resilient to vagaries of climate change happening due to global warming.
- ② It enable crop diversification thus stabilising farmer's income and also contributing to food security.
- ③ Reduces the dependence on nature for agriculture.
- ④ Enable growing of HYV seeds thus increasing yield.
- ⑤ Increased the yield of crops like pulses, oilseeds, millets which are more climate resilient.

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⑥ Reduces overconsumption of water + agriculture making agriculture sustainable

Measures that can be taken to increase efficiency

- ① schemes like PM Kishu Sanchale Yojana with aim of "per drop more crop" should be expanded
- ② Perverse subsidies on irrigation should be reduced to enable judicious use
- ③ Precision irrigation techniques like drip, sprinkler, bubble should be introduced and popularised
- ④ soil assessment and agro climatically suitable crop choice should be there

challenges

→ Lack of research in agriculture sector with budget allocation being 0.4% of Agriculture GVA
→ low awareness among farmers regarding precision farming

If it is sine qua non for agricultural productivity that quality irrigation is ensured.

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Ans 4 Livestock farming refers to engaging in activities like cattle rearing, poultry farming combined with traditional agriculture.

Importance : Livestock sector contributes to 30% of Agricultural GDP

Steps to Promote : Allocation of a round 1500cr for Animal Husbandry Infrastructure development Fund is a welcome step

Incentivising agriculture through investment

- ① It bolsters the aim of doubling farmer's income by diversifying sources of income.
- ② It creates additional employment in the agriculture sector tackling problem of disguised unemployment

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- ③ It helps in development of food processing industry and thus increasing investment into agriculture.
- ④ Promotes R&D in livestock farming & agriculture
- ⑤ leads in development of robust supply chains and diversification of markets
- ⑥ Enables India to compete on global scale in sectors like poultry (we are 2nd currently)
- ⑦ Investment reduces use of antibiotics in livestock farming reducing disease burden.

challenges

- ① low quality breeds and lack of adequate research
- ② Lack of backward & forward linkages in agriculture
- ③ low land holdings among farmers

livestock sector can be "sunshine sector" for Indian agriculture.

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Ans 5 Trees provide multitude of ecosystem services with one being discovered recently as storage of water.

Process of water transportation ~~extensive~~

- ① The process starts by loss of water through transpiration creating a vacancy in water chain.
- ② The roots absorb water through fibrous structures from the soil
- ③ The water is transported through Xylem vessels: These are denucleated vessels which are the water transporting system of the plant
- ④ The water reaches leaves where it is ~~be~~ then lost through transpiration

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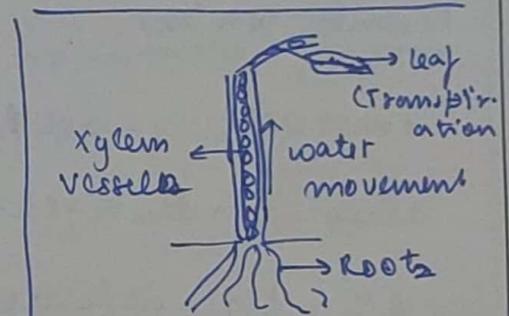
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Process of storage : The storage is usually in the vacuoles which survive after cell dies and become part the sap present in trunk.

Significance of this discovery



Water transportation in plants

① It will help in ~~bolstering~~ bolstering efforts

of supply side water management techniques.

② The discovery shows importance of traditional knowledge in tackling modern day problems

challenge → ③ severe Deprestation in the region

→ ④ Displacement to communities leading to loss of knowledge

~~The~~ Trees thus are goldmine for discovering & learning from nature and such discoveries must be properly harnessed.

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Ans 6 Artificially Intelligence is like a spider web made of data points expanding into every sector as data generated is increasing.

Recent context : Other than the REAEM 2023

summit Chief of defence staff has also indentified 75 application of AI in defence sector.

Benefits of AI in defence sector

- ① It enables effective tackling of new & emerging threat of cyber warfare
- ② It modernises the equipment of defence forces bolstering capability
- ③ AI's integration with border infrastructure development projects like BOLD - IIT can tackle the threats of drones on border.

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- ④ AI is also being employed in Unmanned Aerial Vehicles to enhance targeting and reduce collateral damage.
- ⑤ Effective analysis of data by AI can help in better understanding of movement patterns of terrorists.

Challenges due to AI

- ① Unmanned weapons create ethical challenges in war
② Killer Robot of America
 - ② Autonomous operations of AI may be influenced by biases causing disasters
 - ③ AI is being used to conduct cyber warfare and challenging internal security
 - ④ The data being used in AI applications and how it's being used lack any kind of transparency
- AI is a double edged sword and responsible use as highlighted in Bletchley Declaration should be the approach.

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Ans 1 Plastics in some form has reached into every domain of human life and discovery of micro-plastics in blood vessels highlight level of plastic pollution.

Recent context: Other than Public Accounts Committee, Plastic pollution was highlighted by Earth Action through Plastic overshoot day.

Initiatives by government

- ① Plastic waste management rules 2016 laid down several guidelines for plastic use.
- ② Plastics below 120 μm have been discouraged.
- ③ Lifecycle approach, by fixing responsibility on the producer of plastic for its disposal, has been promoted.

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- ④ Government is running campaigns to reduce one time use plastics.
- ⑤ The use of polythenes have been banned in daily use
- ⑥ Cleaning drive specially in marine areas are being undertaken
- ⑦ Government has mandated the sellers to establish centres for plastic waste management.

Challenges : ① All pervasive nature of plastics from water bottles to pens.

② Inadequate waste segregation at source in India leading to poor tackling of plastic waste.

③ Lack of responsibility taking attitude of corporates to avoid additional costs

Plastic pollution is a menace for both life on land (SDG 15) and life below water (SDG 14) & must be tackled.

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Ans 8 Landslides refers to sudden shift of mass on a slope causing debris to come down leading to extensive damage.

Recent Incidents : ① Wayanad landslide

2018 → claimed > 500 lives; 2024 → > 200

② Philippines land slide : > 2000 lives ^{lives} claimed

Reasons for increasing incidences

- ① Increasing population pressure on land in developing countries.
- ② The incidences of cloudbursts, intense rain in short period of time due to human induced climate change (eg) Wayanad 2024
- ③ Unsustainable tourism and activity on the steep unstable slopes
(eg) coffee plantation in wayanad
- ④ Reclaiming of land by river after heavy rains.

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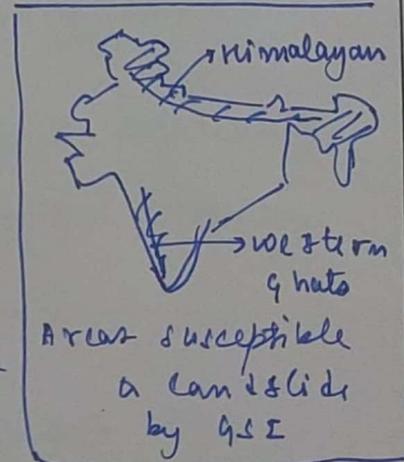
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- ③ Increased infrastructure building to enhance connectivity ④ Himalayan landslides in Uttarakhand region
- ⑤ These human activities have crossed carrying capacity of nature thus causing landslides.

Measures to tackle

- ① Development of efficient Early warning system to minimize human damage
- ② Promoting sustainable tourism and sustainable agricultural practices
- ③ Mapping of susceptible regions as done by IIT Madras and ISRO
- ④ By creating awareness about people and engaging community into activities like afforestation



Challenge

- ① Unpredictable factors like geomorphology make Early warning difficult
- ② Increasing population.

Landslides must be tackled using technology and global best practices like in China.



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Ans 9 The threats to national security have become domain specific and these domains have diversified into fields other than geographic. ① Cyber, narcotics

Recent: The attacks on India's Power grid and Kudankulam Nuclear Power Plant are case in point.

Contemporary challenges

- ① As highlighted by chief of defence staff in recent summit, Cyber warfare is an emerging theme.
- ② Air domain has become especially vulnerable since surgical strikes have become the norm.
- ③ Narcotics trafficking across the border used to fund terror activities.

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- ④ Use of UAVs, Drones for several military application has changed warfare landscape ④ Russia-Ukraine war & Israel-Hamas war
- ⑤ The use of AI in autonomous weapons is emerging as threat ④ US's experiments for unmanned fighter jet.

Steps that can be taken

- ① Using AI to deal with cyber threats.
- ② Bringing robust legislation to control air domain effectively.
- ③ Investing in R&D for new and emerging technologies.
- ④ International co-operation to deal with global issues of cyber terrorism.
- ⑤ ~~Issue~~ setting up theatre commands to effectively deal with existing geographical ~~threats~~ threats

A shift in defense policy is required to become more "thematic" while handling geographic.

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Ans 10 India shares border with 57 countries through land and 2 others through water thus border management becomes important for internal security. New technologies play a role in:

① Strengthening border security framework

② Use of technologies like BOLD & ET can make our border less porous and enhance monitoring

③ It will make India less vulnerable to threats of expansion by China

④ It will optimize the current human & material resources being deployed in the border region.

⑤ It will help in development of border regions further increasing the robustness of border security framework.

⑧ Addressing Cross border threats

- ① The threat of narcotics ^{using drones} trafficking & arms smuggling, can be tackled effectively
- ② specific border issues like cattle smuggling & counterfeit currency entry through Bangladesh border can be checked.
- ③ Entry of anti social elements fuelling issues in India can be stopped (eg Myanmar Border)
- ④ Refugee crisis in India can be tackled.
- ⑤ The use of non traditional security threats like terrorism can be put on hold to.

Border management using advanced technologies can create environment of peace much needed for the aim of \$5 trillion economy.

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Ans 1 India has emerged as startup hub of the world with several unicorns emerging but the rate of failure in startups is high due to some factors entrenched in Indian economic system like.

Structural issues challenging sustainability

- ① 49% of Indian graduates are unemployable (Economic survey)
- ② The Intellectual Property Rights protection mechanisms in India are not robust.
- ③ The regional disparity increased competition in one region to an unnatural level killing small startups
- ④ Sectoral disparity eg startups like Agrikul, Skyroot in space field while hardly any startup in agriculture.

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- ⑤ low spending of government in the field of startup development.
- ⑥ low industrial growth in the country reduce availability of materials that can be used in startup products
- ⑦ High logistics cost in India i.e. 13% as compared to 7-8% in developed countries.
- ⑧ Lack of export market diversification for Indian startups.
- ⑨ Money making focus rather than R & D focus of startups.
- ⑩ Global headwinds like COVID 19, Russia-Ukraine war impacted startups in India due to absence of security by government.

Practical solutions

- ① Infrastructural development by creating office spaces, plug & play facilities to

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reduce the setup cost of startups.

- ② Collaboration of startups with colleges to ensure steady stream of graduates
- ③ Anant & ~~DIET~~ DIETs - Pilsani
- ④ The reduction of logistics costs through National Logistics Policy.
- ⑤ Export promotion under SCOMET framework of New Foreign trade policy
- ⑥ Increase support for startups to diversify into untapped field of agriculture, skill development.
- ⑦ Enhancing security support ~~for~~ framework for startups on lines of countries like Norway & Sweden.
- ⑧ Ensuring industry aligned skilling to students to increase employability
- ⑨ Encouraging R&D based startups ^{⑩ Atal Innovation Mission}
startups are undoubtedly engines for growth of India & must be made sustainable.

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Ans 12 India has > 1.6 lakh km of railway network in India. Modernisation of this has become a major concern reflected by ₹ 2 lakh crore budget allocations for 2023 & 2024. For this models like Public private partnerships are being explored.

Advantages of Public Private Partnership (PPP)

- ① Takes away the liabilities of government and free up assets for use in technology research
- ② Induces global tech brought by private technology into railways
- ③ Encourages development of world class platforms to generate more traffic
- ④ Enhances profitability of passenger railways and also provides employment opportunity to vendors on platforms.

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- ⑤ Involves private players in the development process bringing inclusive and equitable growth.
- ⑥ Enhances quality of services available to passengers.
- ⑦ Rationalises railway fares thus reducing subsidy burden of government.

Challenges of PPP model

- ① Private players will not consider the welfare aspect of Indian railways.
- ② The indiscriminate use of infrastructure and cost cutting may leave the condition of infrastructure in dilapidated state.
- ③ Private may cut down on employees thus affecting social security.

what can be done

- ① Proper timeline for private involvement in the project
- ② Rehabilitation of work force must happen
- ③ clause for condition of infrastructure should be added.

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Railway safety: For the last year several incidents including the disastrous Balasore incident has taken place.

Measures to improve safety

- ① Installation of KAVACH system on more tracks expanding from current coverage of 1500 km
- ② Reducing human intervention and more mechanisation & automation
- ③ Anthropometric design of coaches to reduce driver fatigue.
- ④ Effective transmission of information between drivers & station
- ⑤ separate routes for freight and passenger traffic @ Dedicated freight corridor

- Challenges
- ① High cost of KAVACH
 - ② Poor quality of train coaches
 - ③ High density of railway traffic on some routes

Railway form the backbone of country's infrastructure capabilities and their improvement is required for becoming developed.

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Ans 13 The logistic issue in farming leads to immense damage to crops
 (a) 30-40% of horticulture crops are damaged en route. To rectify these both upstream i.e. till crop reaches market and downstream i.e. journey after market need to be tackled to make agriculture remunerative.

Upstream challenges in marketing & transport

- ① Lack of storage facilities like ~~old~~ cold storage chains.
- ② Lack of backward - forward linkages between farmers and markets
- ③ Infrastructure like roads and transport facilities are not developed
- ④ Post harvest infrastructure other than storage also are not developed
- ⑤ Lack of proper awareness among farmers regarding market opportunities.

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Downstream challenges

- ① Cartelization in APMC markets leading to losses to farmers and stalling of goods.
- ② Poor infrastructure of APMC markets and lack of regular procurement by NAFED, SAFED & KEFED
- ③ Lack of finance for farmers leading to distress sale
- ④ Lack of auxiliary industries to support agriculture and reduce pressure on land.

Removing upstream challenges

- ① Fencing and developing pest management techniques for standing crops
- ② Promoting storage near fields
- ③ Amending Essential commodities Act to incentivize private investment into storage technology development.

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- ④ developing proper connectivity and reach to the market i.e. develop roads and cold storage chains to prevent damage before reaching markets

Removing downstream challenges

- ① Increase number of traders in APMC markets and increase regulations
 - ② Introduction of initiatives like e-NAM, L1-RAKM to expand reach of APMC markets
 - ③ Promote growth of Agriculture Infrastructure Development Fund
 - ④ Promote Farmer Producer Organisations and projects like Operation Green
 - ⑤ Establishment of facilities like National warehouse depository receipts to enhance capital availability with farmers
 - ⑥ development of labour intensive in districts to reduce pressure on land
- Agriculture needs to become remunerative for inclusive growth in India.

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Ans 14 The fluctuations seen the market for agricultural commodities and the subsequent export import policies are designed to shield consumers from price shocks leaving ~~out~~ less poor on farmers ~~from~~ ⁱⁿ policy considerations.

Recent Context: Export duty increase on onions to regulate price in ^{internal} ~~export~~ market, born on export of Basmati Rice.

Impact of Export & Import Policies on Farmers

① Positive Impact

- ① They get fair prices for their crops when flooding from external sources is curbed.
- ② Farmers are able to become competitive in external markets when the import duty is reduced
- ③ Farmers are able to have higher capital availability in case of

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higher sales which is then invested
in field infrastructure development-

① Negative Impacts

- ① sudden ban on exports can result in fall in prices making agriculture less remunerative
- ② Distress sale might occur
- ③ Crop might be damaged if there is supply & demand mismatch
- ④ Farmers might lose and traders might benefit from skewed policies
- ⑤ Farmers may lose the foreign market to other players.
- ⑥ Capital availability reduces impacting the harvest in next season
- ⑦ Investment in improving productivity may be hindered exacerbating backwardness of agriculture.

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Measures to skill Farmers

- ① Minimum support prices should be extended to more crops on contextual basis.
- ② Facilities like e-NAM should be spread to avoid distress sale and expand reach to national market
- ③ consultation with farmers' representatives and participative decision making should be there.
- ④ Reduction in subsidies while empowerment & skilling of farmers to enhance productivity must be there.
- ⑤ skilling of farmers and facilitating integrated farming systems @ cattle rearing can diversify sources of income.

Farmers especially small & marginal farmers are vulnerable to shocks & must be adequately protected.

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Ans 15 CAR-T cell Therapy is a genome editing based technology being used to treat cancer patients. It is ^{1st} indigenously developed cancer therapy in India putting us on global map.

Working of CAR-T cell

- ① The killer T cells ~~of~~ from the patient's body are extracted
- ② The genome of these cells ~~are~~ is edited through technology like CRISPR Cas9
- ③ The new genome introduced in the cell enables formation of CD19 antigen on the cell surface
- ④ This CD19 effectively binds with the cancer cell and kills it.

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⑤ The introduction of the modified killer T cells is done by first multiplying them using Hybridoma techniques & then injecting them into the patients.

Effectiveness: ① As the T cells with CD 19 antigen increase in the body the cancer cells are wiped out

② This therapy is a big leap from earlier option of bone marrow replacement for blood cancers.

③ The effectiveness for blood cancer is $>70\%$ while for other cancers it is not high

Significance

① It opens new domains involving gene therapy in Indian medicine

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- ① The cost effectiveness of Indian healthcare system combined with this would mark boom in medical tourism.
- ② It facilitates collaboration with foreign research institutions advancing research environment in India.
- ④ It makes India less dependent on imported medicines for cancer patients.
- shortcomings :
- ① The other impacts of changing gene are not yet known.
- ② It's use is limited to blood cancers.
- ③ Cost in short term would remain high.
- CART cell marks India's arrival on global stage and opens roads for future cutting edge advancements.

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Ans/6 Indian Gaganyaan Mission aims to send Indian Astronauts to space using indigenous technology for the first time.

Bharat Antariksha station is the project to develop our own space station for stay of Astronauts in space. Thus it is the follow up objective of Indian Gaganyaan Mission

Specifics about ~~Indian~~ Gaganyaan Mission (GM)

- ① It will use LVM-3 launch vehicle with HC-25 engine
- ② The orbit it aims to reach is 400×200 km

Bharatiya Antariksha station specifics (BAS)

- ① It aims to have 5 module space station of India at the inclination of 51.5° using SOORYA vehicle
- ② This will cover 90% of habitated part of Earth

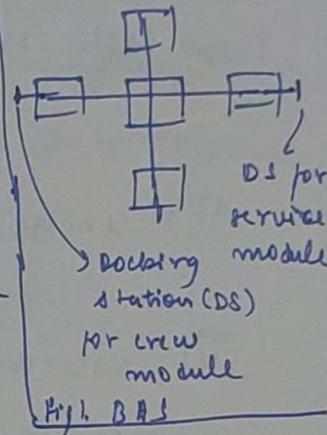
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- Other countries like USA,
Russia, Europe, Canada have sent their manned mission to space aboard the International space station.



China is close behind with its Tiangong space station

Major technologies required for GM and BAS

These both share common technologies like

- ① Re-entry technology: The module sent must be returned at a specific angle to ~~reduced~~ avoid damage
- ② Par Abort test and Crew Escape system
 - ↳ This will enable mid air evacuation of crew in case of emergency
- ③ Environment controlled life support system (ECLSS)
 - ↳ These include a network of machines to ensure availability of H_2O & O_2



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These will involve : (i) Sabatier system to
remove CO_2 and use it

(ii) urine would be recycled to produce
 H_2O

(iii) concerns are also to avoid the
presence of biofilm (e.g.) *K. pneumoniae*
on ISS.

④ Astronaut training using simulators
like SMS, DTS, ITS.

Challenges : ① Mr Sammath (Chairman ISRO)

has pointed out how India did not
receive any support for RLVSS development

② The space domain is very dynamic
& risky (e.g.) recent case of Samantha Williams

③ The roadmap is not very clear and
the vehicle SORRYA for BAS is
still in design phase

④ low budget allocation to ISRO

BAS is set to replace ISS and will
mark India's entry into global space
politics.

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Ans 17 Offshore wind energy offers high potential due to ~~low~~^{high} wind speeds and low resistance but it remains largely untapped.

Recent developments : The project to establish 1st offshore wind energy project has been undertaken on the coast of Tamil Nadu and others are projected in Gujarat also.

Challenges

Despite > 7500 km coastline offshore wind energy remains elusive because

- ① High infrastructure placement cost not matched by initial returns leading to low private interest
- ② The technology required is higher than available in the country

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- ③ It poses challenge to navigation routes.
- ④ Grids connectivity of offshore plants becomes a challenge.
- ⑤ The natural calamities like cyclones, Tsunami's would render the complete investment nullified

Possible solutions

- ① Investing in research and development to optimize design costs.
- ② To involve private sectors in the development by incentivizing and offsetting initial costs
- ③ By seeking technology transfer from countries like Norway, Germany who have expertise in this field.

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कृपया इस स्थान में प्रश्न संख्या के अतिरिक्त कुछ न लिखें।

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④ By expanding the base of startups in this field to design innovative solutions for grid connectivity

It is only by harnessing this wind energy can India achieve the target of 50% renewable energy in grid by 2030 and net zero by 2070 thus efforts must be ramped up.

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Ans-19 Urban centres contribute to 66% of the GDP and 90% of government revenue comes from cities.

However frequent incidences of urban flooding, urban heat islands have highlighted the disaster potential & vulnerability of urban cities.

Complexity of disaster management

- ① High population density thus ~~put~~ pressure on land is too much
- ② Unplanned development leads to poor drainage facilities causing floods.
- ③ Wetland encroachment, deforestation has caused increased incidences of disaster which cannot be managed effectively
- ④ The structures of urban mega cities

is such that they become heat islands thus management becomes cumbersome as it requires structural change.

- ③ The diffused communities in urban cities also contribute to complexity in disaster management.

Addressing problem of Disaster-Management

- ① Undertaking urban forestry using methods like Miyawaki plantation
- ② To create flood buffers like sponge city initiatives in China to tackle floods.
- ③ To imbibe into the development process of a city the proper arrangements for drainage
- ④ Improve funding mechanism for Urban Local Bodies who can

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address the specific issues of city

- ③ Increase alternate centres which will reduce the pressure on cities @ Kota for medical coaching to reduce pressure on Delhi.
- ④ To increase the effectiveness of Early warning systems
- ⑤ To increase use of sustainable materials in construction of housing and buildings.
- ⑥ To promote designs of buildings which are suitable for tropical climates.
- ⑦ To work on wetland rejuvenation to enhance the carrying capacity of urban areas.

Urban areas are incubators of growth and must not "choke" for smooth growth of country.

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Ans 19 Social media & networking sites with their broad base & reach are emerging as new avenues for internal security threat.

Threats posed

- ① Radicalisation of opinion by continuous reinforcement through impeccable means
- ② Cyber frauds using social media and also blackmailing are on rise
- ③ Social media can be used by terror groups for brainwashing and recruiting youth.
- ④ Digital misinformation can result in riot incitement.
- ⑤ The transnational nature of these can result in difficulty of holding someone accountable.

Role of fact check units

- ① They will stop the spread of fake news and curb the misuse of digital misinformation.
- ② They will protect the citizens from exposure to potentially violence incitement material.
- ③ They would give government a control over the previously unregulated platforms thus will help in fixing accountability.
- ④ Fact check units are designed in such a way that they would ~~protect~~ ~~at~~ prevent violation of dignity through means like deepfakes.

Concerns of press broadcasters

- ① It would reduce the autonomy of broadcasters.

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- ② FCU's Impinge on the Right to Freedom of Expression under Article 19(1) (a)
- ③ Government would be able to manipulate news for its own benefits
- ④ Propagandist tendencies are underlying the FCU
- ⑤ Any voice of dissent would not be able to reach the masses

What should be done

- ① Impartiality and fairness in FCU by appointing representatives from all stake holders.
 - ② The criteria of determining fake news should be clear & banning should be an exception not norm
 - ③ Privacy concerns must be adequately addressed
- ∴ Fake news must be tackled but in a transparent & responsible manner.

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Ans 20 Violent Non state Actors (VNSA) are actors who spread violence through radicalisation of youth in the valley and are ~~at~~ more often than not sponsored by internal state actors.

VNSA - OGW nexus: The mass procession in 2016 on death of a known VNSA raised concerns of OGW and army started targeted operation to tackle these sympathizers of violence.

Role of Operation Dadbhawa

The main aim is to win the hearts and minds of people in the Kashmir valley. It does this by

- ① Rehabilitation for families affected by terror is done by Indian Army.
- ② These youths are being provided

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with skill and placement opportunities

- ② Youth are being mobilised as on ground force for armed forces rather than terrorists
- ④ The education status is being improved by opening schools
- ⑤ Tourism is being promoted giving ~~the~~ employment opportunities to the youth.

⑥ Effectiveness of these measures

- ① Kashmir valley has shown 66% reduction in terror incidents
- ② Several areas have been completely secured and new avenues like Tulip farming have come up
- ③ The trust in armed forces has increased in the youth of Kashmir valley.

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Challenges faced

- ① Sporadic incidents of human rights violation mar the image of Armed forces.
- ② The increased funding and technological capabilities of terrorists is creating a challenge.
- ③ The youth are being radicalised through means such as social media.
- ④ Still not many developmental opportunities exist in the valley thus aspirations have not been adequately answered.

Only by cutting off the OGW-VNSA nexus can long lasting peace come to the valley & for this both political aspirations i.e. elected government and economic aspiration i.e. employment to youth must be provided.