GS-III

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प्रश्न संख्या (Question No.)

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इस भाग में कुछ न लिखें (Don't write anything in this part)

PRIYANSHU AGRAWAL_GS III_TEST - 3

1- Recent Economic Survey, highlighted fiscal deficit of 5.6%, still over FRBM limit of 3% of GDP.

High FDI because
- low tax to GDP ratio (11%)
- Narrow tax base (4% Indian fill income tax)
- Culture of freebies and subsidies
- Poor fiscal consolidation due dependency culture

Potential consequences

i) Virtuous cycle of crowding out

High fiscal deficit → Now low investment position ↓

↑ low debt sustainability ← Increase borrowing

ii) The poor international ratings Based on negative international trade position, hampering export potential

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iii) Increased borrowing for repay of old loans causing positive interest rate growth differential

iv) Problem of dependency like demand for loan waivers or legalize MSP further deteriote receipts potential

ways to ensure consolidation

i) Nandan Nilekani suggested on independent fiscal council to monitor and suggest reforms

ii) Ensuring strict implementation of FRBM act

iii) Increase tax buoyancy and coverage by formalization of economy

iv) Overcoming populist tendency by strict regulation on freebies

In that manner, we can achieve goal of consolidation as per 15th finance Commission

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2- With Year on year growth of 11% of Capital investment, Economic Survey held it as mean to achieve goal of $7 trillion economy.

Potential of Capital Investment

i) High multiplier effect

Work bank observed 2.5x outcome

ii) Promote crowding in effect

Like China's manufacturing model by SEZ's

iii) Ease of doing business

Logistics improvement for better linkage

iv) Export competitiveness

By reducing cost through economies of scale for $1 trillion target by 2030

v) Increased employment opportunity

To reduce unemployment rate of 3.2%.

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Challenges faced :-

i) Poor labour law reforms, depriving of needed foreign investment

ii) Bureacratic hurdles by regulatory cholestrol, impacting efficiency

iii) low focus of inclusive investment as 30% is limited to IT related sector

iv) The problem of fund shortage to Government due subsidy regime

v) Problem of poor linkages as World Bank logistic report ranked 38

Way forward →
- Need to use Brownfield project under National Monetization pipline
- Promote Ease of doing by e-governance method
- Support investment through PPP (Bibek Debroy suggestion)

Thus increasing scope to Viksit Bharat by 2047.

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3- According to Urban Mobility Report, 50% of Indians will move to urban area by 2041, causing huge problem of carrying capacity

Opportunity with peri-urban agriculture

i) Providing linkage to rural-urban continuum under PURA Mission

ii) Improving peri-urban area development with economic-housing cooperation

iii) Promoting ease of logistics by reducing travel time to urban market

iv) Overcoming rural based agrarian distress due reduce land productivity

v) Scope of crop diversification as Ashok Gulati observed potential for Operation GREEN in the region

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Challenges associated

i) Problem of gentrification, causing peri-urban area to become real-estate

ii) The issue of social security, due poor facility of social capital like slums creation in the region

iii) Problem of market expansion due poor network for export markets

iv) The prevailing dominance of dominant caste like Bhalla study on peri-urban area in Haryana seen dominance of Jats etc.

Way forward
- Linking agriculture to National Mission on Sustainable agriculture
- Promoting extension services for better development
- Social inclusion facilities

Thus resolving crisis of urban sprawl by sustainable solution.

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4- Indian agriculture despite employing 45% population, accounts only 20% to GDP due to low diversification and orientation towards crops like pulses.

Major challenge for self-sufficiency

1) Pulses

- Low favourability due MSP benefits
- Low emphasis on land use productivity
- Limited pulse market largely by Chana, Black gram usage
- Lack of coverage under National food security act

11) Vegetable oils

- Unfavourable geography unlike Indonesia
- Long gestation period
- Shifting course under "Eat fit India"
- Low export potential due quality issue

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Measures to address

i) Increase precision agriculture in regards of pulse to ensure input use efficiency

ii) Indian Council on Agriculture Research suggested for using FPO's to promote rotational farming using legumes crop

iii) The need for sustainable farming by adequate fertilizer by soil health card

iv) Improving MSP coverage, so as to ensure diversification

v) Promoting linkage to food Processing Industries for better opportunities

Thus aiding in achieving goal of doubling farmer income.

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5- The recent Cambridge report observed golden opportunity for India to use biowaste like in ethanol blending towards Panchamrit targets.

Potential in sustainable green economy

- Bio-manufacturing
  - → New avenues of employment in clean energy development
  - → The use in ethanol blending like GMO crops manufacturing
  - → Improving infrastructure like potential for Green Hydrogen development
- Bio fundries
  - → Help in extracting better outcome by huge energy density in bio product
  - → Overcoming consumption based pollution of Green House Gases
  - → Efficient green network for electricity production through turbines

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Challenges persist

i) Poor developmental situation due low R&D facility for it

ii) Problem of sustainable investment due low interest by private sector

iii) The problem of energy efficiency of low 20% (than carnot based 45%)

iv) The issue of safety of technology as still is nascent stages

Way forward

i) International collaboration with key players like Germany for technology development

ii) Improve industria-academy linkage for finance to R&D

iii) Securing interest through ways like production linked incentive

Thus preparing for carbon neutral by 2070.

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6- In order to ensure reusability and reliability in satellite launch vehicles, Reusable Launch Vehicle provide best alternative for sustainable technology

Principle behind it

i) The two stage progress based on:-

a) The support to placing satellite into orbit of self-propulsion

b) Safe return of launch vehicle by timely dissociation with potential of safe landing.

ii) It uses detachment mechanism after shooting satellite to intended orbit by external thrust force

iii) In this manner, preventing self consumption and return back to Earth surface.

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Significance

- Reduce cost of launching vehicle (like Tesla Falcon)
- Help in promoting faster launch activities like Amazon Shephard
- It helps in providing opportunity to reduce Kessler Syndrome

Potential benefit to India

i) Improving Indian space position by service to other nation's to launch

ii) Promoting new employment opportunity as it is emerging sunrise sector

iii) Highlight India's commitment to sustainable space world with reduced debris issue

iv) Providing linkage to Indian Space Programmes for better opportunity

Thus it holds key to promote Indian leadership in space sector.

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7- Carbon Credit Trading Scheme is devised in order to formalize and develop integrated market for financial support to clean development

Key features of it

i) The common platform with scope for international collaboration to direct funds in clean energy

ii) Based on Polluter Pay Principle, by raising credit for clean development in trading climate bonds

iii) Aligned to Kyoto Protocol for clean development mechanism to develop financial opportunity

iv) Helps financing research in carbon smart process

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Potential to mitigate GHG :-

i) Promoting Indian firms for structural change towards green growth through credit mechanism

ii) Create linkage for carbon offsetting and distributive responsibility

iii) It will help Indian intelligentia to raise funds to develop green and clean energy

iv) A formal channel for extracting International investment in Renewable energy resources

v) The benefit to achive Carbon capture, storage and sequestration to prevent carbon debts

Thus providing smart financial solution for India's target of 500GW clean energy by 2030.

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8- Recently World Meteorological Org Organizatn held 2023 as hottest year since Industrial era, with over 60% increase in heat wave cases

Heat Waves (WMO) = 5+ days mean temperature > Average mean temperature

Situation of heat wave

i) WHO highlighted it as emerging form of death with increase of 20% cases

ii) Increased intensity seen through fall of agriculture productivity

iii) Increased frequency with widening region causing forest fire

iv) The higher duration as on average 9 days time period

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Yes, need to be declared disaster

Parameter for disaster
- High vulnerability as over 20 death reported in NCR within a month in 2024
- High risk at multi-level to agriculture, water stress, land degradation
- Impact on human life as ILO held it as cause of reduce efficiency
- Linkage as Recent Canada forest fire due to it

Benefit of under NDMA

i) The dedicated focus on risk reduction by standard plan for preparedness and mitigation

ii) Dedicated fund allocation for mitigation efforts or forecasting

iii) The focus on reducing vulnerability by strategic research for reducing it

Hence promoting India's leadership to mitigate it at global level.

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9- The India's cybersecurity vulnerability seen by increased cases 22% Year on year basis, accounting for specific doctrine for the same.

Utility of "Joint doctrine"

I) Critical Infrastructure resilience
Eg:- Kundakulum case, make it necessary

II) Integrating all task force
Disilorization of cyber capability

III) Improved safety
Accounting to new challenge of ramsonware, DDOs attack etc.

IV) Bringing specialization
collab with dedicated bodies like CERT-IN

V) In align to international strategy like Budapest Convention highlighted

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In gray zone warfare

i) Better capabilities against new asymmetric warfare

ii) Collaboration across different fronts like safeguarding cyberspace against radicalization in Kashmir

iii) Improved Intelligence capture based on Christchurch call for action

iv) Providing hands on capability to improve cybersecurity through role of Cyber Swachta Kendra

Way forward
- Need for International collaboration to prepare for emerging challenges
- focus on structural competacy of Indian armed forces.
- Prioritize awareness creation for active citizen role

Thereby safeguarding Indian security at cyberspace.

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10- With goal of One border one force, BSF monitoring across Bangladesh and Pakistan holds critical role, due to difficult terrain and disturbed areas

Necessity to extend territorial jurisdiction

i) Comprehensive coverage
To prevent scope of infiltration from un-guarded areas

ii) Better coordination
By Bilateral efforts to establish controlled border activities

iii) Prevent illegal trade
As Pakistan is part of Golden crescent of drug trafficking

iv) Prevent safe havens to militants
found in areas across LOC region

v) Use of technology
To aid in comprehensive coverage.

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Potential issues

I) Disputed border area

Like shifting enclaves across Bangladesh

II) Low on-ground support

Eg:- Pakistan spreading hatred against Indian forces at border

III) Structural limitations

Eg:- Rugged terrains of himalayas like Siachin glacier.

IV) Issue of hybrid warfare

By use of drone attacks or new technology

V) Problem of connectivity

As Border Road Organization yet to travel adequate logistic connect.

Way forward

I) Bilateral engagements to reduce concern

II) Comprehensive border management with technology like night vision camera

Thus promoting better support to BSF in guarding crucial border.

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11- Recent Economic survey highlighted 3.2% Unemployment rate, with structural challenges like low female labour force participation (37%).

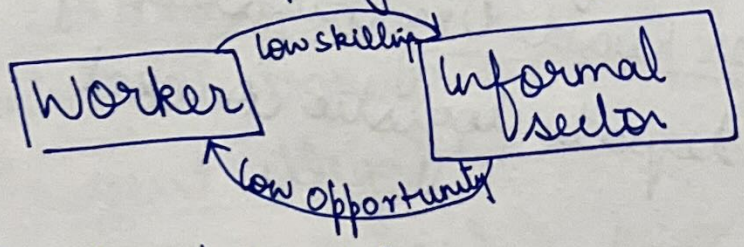
Structural Unemployment

i) Youth level

Due to only 9% youth have access and utilized formal skilling opportunity

ii) Societal level

Over 60% employment by informal sector



iii) Gendered problem

Feminization of agriculture and informal sector as accounts over 80% labour force participation

iv) Poor employability

McKenzie highlighted only 17% Indian

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are employable in formal jobs due to deficiency of quality education

v) Attitudinal challenge

Sanyal observed "poverty of aspiration" due job seeking attitude largely at Government jobs

vi) Adult issues

Poor opportunity of silver economy leading to further poor employability

vii) Social Inequality

Structural constraints to marginal sections like transgender.

Govt efforts
- New Education Policy for quality education
- PM Kaushal Vikas Yojana 2.0 for better skilling
- Job creation through Ease of doing business or Startup India
- Focus on backward section like Standup India.

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Measures for inclusive job

1) Raghuram Rajan highlighted need for rural development to open up new avenues of job there
2) Amartya Sen's capability approach for better employability
3) Bibek Debroy Committee stated PPP option for increasing scope of job creation
4) Need to reach last mile through ways like PMPVTG development play

Thus promoting demographic dividend for Viksit Bharat by 2047.

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12- MSME sector is called engine of Indian economy as they accounts for 20% of GDP with huge employment generation opportunity

Role for regional growth

I) Decentralized development

Eg:- AMUL to emerge as key example to become corporate Giant

II) Women inclusion

Eg:- Kudumbashree promoting female led handicrafts industry

III) Resolve Agrarian distress

Eg:- Promoting food processing industry like in Maharashtra for making wines

IV) Regional inclusion

Eg:- Reaching to unseen areas like Himachal Pradesh Kullu region for new MSME hub.

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v) Shifting regional aspirations

like recent Jammu's effort to use youth in employment by subsidized land based MSME growth

MSME to contribute in

Diversification
- Emerging in new sector like battery recycling
- Increased employment opportunity like skilled job in technical textile
- Facilitate big business by backward linkage through special services
- Promote Entrepreneurial development in new aspect like space sector

Technological Advancement
- Opportunity in strategic sector like Indianized defence equipments
- Providing specialized labs for R&D and design purpose
- Platform for gig work
- Development of new clean energy solution

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Way forward

i) Providing better visibility and support like Champions portal

ii) Support for expanding market and growth like Mudra Scheme

iii) Promoting better linkages and logistics support by multi-modality under PM GATI SHAKTI

iv) Satish Damodaran believe need to push for economies of scale by ways like PLI scheme

v) The incentive to emerge in sunrise sector by ways like viability gap funding in semicon industry

Thus promoting active role to achieve $5 trillion economy goal.

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13- Indian agriculture suffers from 2 V's, vulnerability of monsoon and volatility of market, that makes MSP as preferred way to safeguard farmer interest

Legalization of MSP helps

i) Protecting India's food security by sense of assurity to Annadatta

ii) Aiding farmers to persue agriculture which is losing its lucrative nature

iii) Necessity to prevent import dependency like historic case of PL-480

iv) The active role of agriculture to rural development be safeguarded

v) With feminization of agriculture, it promotes women emporverment

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Against it

i) Dependency culture, preventing self efforts for agrarian productivity

ii) International repurcussion as it falls in WTO Amber box subsidy

iii) Prevent capital investment by private specialized sector

iv) Reinforce agrarian inequality as Bharat Dogra study highlights benefit reach to only 20% of farmers

v) The loss of Government reciepts leading to burden of fiscal deficit

vi) The increased populist governance and new means of politicization.

Other measures available

i) Dalwai Committee highlighted need to promote technological progress

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to ensure better productivity for doubling farmer income

ii) The option of direct bank transfer based on outcome basis as Green box subsidy like in Brazil

iii) Best practices like China's Cooperative farming, by means of FPO's based cooperative farming

iv) The need to shift towards capability approach as Mihir Shah committee highlighted for self sufficiency

Thus need to provide support in more nuanced manner holds key to revamp agriculture.

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14- Food cooperation of India is created with the mandate of compulsory procurement, storage and distribution under PDS system to aid farmers to ensure market protection.

Role of FCI in food security

i) Procurement
Through farmers under MSP so as to ensure timely supply in market

ii) Storage
By maintaining buffer stock and cold chain network for future cours

iii) Transport
To dedicated market based on requirement under PDS system for goals of National Food Security Act

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iv) Monitoring

Through dedicated Depot portal to prevent leakage or misuse of fund

v) Taking up development

for creating storage chains and mobile cold storage to far off places.

Challenges persist

- lack of qualitative grading and sorting
- High buffer, leads to loss of grains due improper storage facility
- lack of market penetration to remote corners
- The prevalence of middle men in Mandis, lead to poor procurement to reach intended beneficiaries
- Poor logistic facilities, leading to rottening or degraded quality
- Poor linkage with State Government causing issue of distribution

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Reforms needed

i) Adequate warehousing facilities as Ashok Gulahti highlighted by PPP based module

ii) The need for transparent procurement as Bhalla and Chadha Study stated to create procurement as Grameen level

iii) The need to integrate better transport infrastructure like USA mobile cold storage

iv) The technological advancement in order to ensure better distribution at national level

Hence overcoming distortion or exclusionary errors.

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15- Nanotechnology as per Oxford Study, holds key for zero hunger and achieving nutritional target under SDG target of zero hunger

Role of nanotechnology :-

- Agriculture Productivity
  - Land use efficiency by nano urea to reduce bioaccumulation
  - Indian Council on Agriculture Research, for water efficiency by nanoparticles
  - Improved crop resilience by nano medicine against pest attacks
- Food security
  - Promote food fortification like Vitamin A in Golden rice
  - Resolve hidden hunger by nano-medicine for anemic patient
  - Better food absorption by nano target drug delivery
  - Providing supplements within food plates through nano-additives

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Recent Development

I) Nano Urea that accounts 90% less Nitrogen wastage

II) Nano sulphur that restricts over supply in farms.

III) Nano-pesticides that prevent problem of biomagnification

Benefits

↳ Reduced cost of inputs because higher use efficiency

↳ Overcoming health issues like stomach ulcer due pesticide

↳ Preventing need for flood irrigation and hence water use efficiency

↳ Limited application, prevent side effect like Vandana Shiva observed reproductive health issue in woman.

Challenges

↳ The nano particle may cause the unknown health problem

↳ The impact on natural soil by killing natural biotic componew

↳ Ethical consideration on nano based modification

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- Poor R&D facilities to develop more robust solution
- High cost of production, leading to limited manufacturer

Way forward

I) The attitudinal shift as highlighted by Satish Damodaran towards smart practices like nanotech

II) Ashok Gulahti recommended support for agri-Startup in field of emerging technology

III) The need to increase nano based fertilizer through viability gap funding support

IV) Establish academia-Industry linkage to explore new potential

Thus creating suitable scope to double farmers income.

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16- Quantum dots have emerged as "state of the art" development based on principles of quantum mechanics that can bring revolution to learn and use quantum based solution

Ans Technology

i) It accounts for quantum principle of entanglement and superposition

ii) The high use efficiency to promote better productivity.

Applications

i) Improving capacity to develop quantum computers by acting as means to utilize quantum knowledge

ii) In field of agriculture, improving productivity and procision agriculture with sustainable practices

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iii) In manufacturing sector, for promoting complex development and analysis of various Finite Element Mechanism

iv) In research of solutions for emerging fields in bio-technology by providing comprehensive support

Challenges →
- Decoherence due high sensitivity
- Environment stability for efficiency
- Costly technology
- Poor R&D facilities in India
- Low investment as still in very nascent stage

Thus future lies in expanding domain of quantum dots application with development of regulatory sandbox in ensuring ethical and desired use of it.

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17- The recent IPCC report highlighted loss of over 60% of flora and fauna since last century can largely be traced to increased development on cost of environment degradation

Role of protected areas

I) Protect from evil quartet
By preventing habitat loss, over-population, land degradation and alien invasive specie

II) Climate Justice theory
By providing autonomy to natural biodiversity to stay in original state

III) Limit human intervention
By clearly prohibiting or restricting based on core-periphery idea

IV) Ensure international cooperation
like Indo-Indonesia in protecting Sundaland as biodiversity hotspots

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v) Climate and nature based solution

Through keystone species based approach like Gir forest for lions

vi) Protect spiritual essence

By protecting sacred groves like in Nilgiri region for wellbeing of place.

Effectiveness of them

National Park	Wildlife Sanctuaries	Biosphere reserve
i) Complete ban on commercial activities	Restricted usage	Allow in periphery areas
ii) No alteration of boundaries	Strict regulation of boundaries	Comparative flexibility
iii) Protect nature as whole	Based on targeted protection	Based on complete protection
iv) Complete area to Government control	Certain allow to private	Core is completely under Government
v) Eg:- Dudhwa National Park	vi) Madhumalai Wildlife Sanctuary	Eg:- Panna Biosphere reserve

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Way forward

i) The strict regulation to secure natural biodiversity by using technological ways like CATS for tiger

ii) Resolving animal-man conflict, by means like natural periphery as per Kasturirangan Committee

iii) Following best practice of protection like UNESCO Guidelines and MAB programmes

iv) Overcoming challenges like illegal wildlife trafickking by empowered Forest Department

Thus creating capacity for sustainable and inclusive future for all.

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18- With rapid increase in air pollution, State of Air Report stated India is 4th most polluted nation, with Delhi as most polluted capital globally

Causes of high levels of :-

1) PM 2.5 and PM 10

↳ High construction activities due to gentrification and urbanization

↳ Inappropriate bulldozing activities against illegal construction demolition

↳ High affluent exhaust from industry with inadequate treatment

↳ High vehicular emission

↳ The natural sources like forest fire or anthropogenic fire

↳ The problem of stubble burning

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ii) Ozone pollution

↳ High presence of Nitrous waste due to vehicular emission.

↳ The use of ozone based compounds like in lubricant industry or perfume industry

↳ High aerosols present due to discharge from industries

Various steps by Government

i) The restriction of vehicular emission through BS VI norms and catalytic converter at exhaust

ii) The industrial discharge treatment like desulphurization technique

iii) The restriction on construction activity and sustainable replacement like m-sands

iv) The adsorption of particles of PM10 through dedicated fabric nets

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v) Continuous monitoring under National Ambient Air quality Standards by CPCB

vi) Dedication action plan against problem like stubble burning through happy seeder

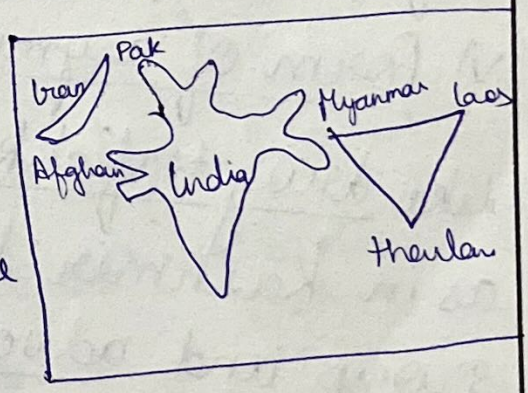
Way forward
- Transit oriented development like Copenhagen model
- Changing lifestyle towards climate smart practice like cycling or public transport
- Increased regulation on industry discharge
- Sustainable tourism to prevent issue like forest fire.

Thus ensuring reduced problem of air pollution and target to reduce PM level by 2027.

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19- India being at affinity to Golden triangle at South-East region and golden crescant at West, make it as centre point of drug cartel.

Causes of drug trafickking



i) Organized crime

Prevailing across North East border due porous border and poor development of region

ii) Role of external state actor

NIA observed huge supply of drugs from Pakistan ISI in Punjab region caused drug addiction

iii) Alternative to terror finance

Like Dawood network operate in drug trafickking, which is leading

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source of fund for them

iv) Development of underdeveloped
like in Nagaland region, as drug consumption prevents active economic participation causing vicious cycle of poverty

v) Form of asymmetric warfare
like drug trafickking create network as in Kashmir based on terror group and advocate Militancy

vi) Hampers border security
like in maritime border region, which accounts over 40% such trade from India

Multi-pronged strategy

1) Legal efforts
i) The declaration of Organized crime group as criminal under new Bharatiya Nyaya Suraksha Sanhita bill

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ii) The decentralized efforts through civic development plan by overcoming issue through rehabilitation manner

iii) International collaboration at bilateral level like with Thailand for monitoring or FATF guidelines in establishing security procedures

2) Development

i) The focus on technological solution through drone like surveillance in suspected area.

ii) Developing social infrastructure in the region to ensure capability building for employability

iii) The specialized security forces on borders like Assam Rifles for comprehensive guarding of region

Thus resolving this menace holds key for Indian sovereignty and integrity.

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20- Recent violent clash in Sukma district, marked prevalence of Left Wing Extremism, not only killing 39 Maoists but also 3 army personnels.

Prevailing hard security measures

i) No-tolerance policy through huge powers to arrest or take covert operations under AFSPA

ii) The strict guidelines against violent activities with Guerilla Warfare through ways like Grey Hounds

iii) The restriction in regional mobility through checkpost or ways like Inner line permit

iv) Hard means through army based solution by deploying forces or extra army personnel.

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Need for soft approach also

i) It will promote reformation like surrender cum rehabilitation policy

ii) The focus on social wellbeing by adequate facility of schools, hospital preventing extremism due poverty

iii) Economic opportunity will prevent recruitment of youth in extremist activities

iv) The benefit of public centric approach for better rapport building and perception for change

Efforts in the same direction

i) The holistic approach to resolve like SAMADHAN strategy

ii) Smart policing approach with sensitivity and reformatory nature

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to ensure better law and order management

iii) Rahul Pandita in "Hello Bastar" stated need for creating solidarity in the region by perception management and active regional engagement

iv) learning from right prudence like IAS O.P. Chaudhary Choo Loo Asman for youth in education and right career progression

v) Finally grassroot development under PESA based governance solution for self development

In this manner, India can enter Amrit Kaal with full unity and integrity.