

UPSC

For Practice Purpose Only

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NAME :- SHAGUN KUMAR

Roll No :- 1910075979

Date :- 01/09/2024

Start :- 10 AM

End :-

1 PM.

Remarks :-

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Specimen Booklet
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Forum IAS

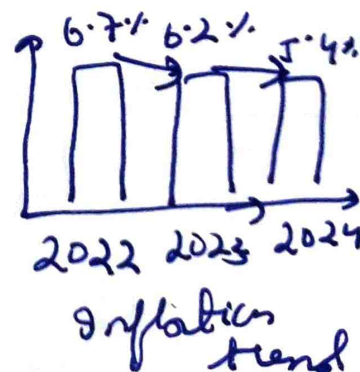
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- ① India has recently signed FTAs with nations like Australia, UAE etc. It is also negotiating with United Kingdoms, European Union on FTAs.

Reasons of increased focus on FTAs →

- ① India want to be part of the global value chains (GVCs)
↳ now only 40% integration with GVC (Economic Survey 2024)
- ② Ensure investment inflows in India
- EFTA's agreement ensures \$100 Billion in five years.
- ③ Ensure cheaper imports in India to control inflation
↳ eg - oil import
FTA with UAE.



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- ④ Ensure export based growth.
eg - Software export to UK
- ⑤ Increase the manufacturing sector's contribution to GDP.
- ⑥ Push for employment generation to reap demographic dividend.
- ⑦ Challenge the rise of China in the global order
eg - BRI initiative of China

- Issues & Challenges with FTA's
- ① Low skill rate (4.4%)
 - ② Moving out of RLEP agreement
 - ③ Regulatory delays in India
 - ④ Hard negotiations on agri-imports.

- Way forward
- ① Skilling of Youth (Internship Scheme)
 - ② Focus on Africa / Latin America
 - ③ Single window clearances will help India soon
- Better FTA's will help India soon
become 3rd LARGEST ECONOMY of world.

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(2) Fiscal policy is made by the government, & presented in the form of Budget every year for the growth and development of nation.

A well-designed fiscal policy →

(A) Facilitate equitable distribution →

(1) Distribute money fairly across the states
eg - Special state status to north East.

(2) Remove the Rural-urban divide
eg - 2.63 crore rural houses under PM Awas.

(3) Give low burden of taxation to the poor.
eg - 0 income tax upto 3 lakh income.

(4) Give governmental services to all at low cost
eg - Ayushman Bharat 7.3 crore hospital admissions.

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- (b) Welfare of all sections -
- (1) Help youth in skills & Education
eg - Employment linked incentive scheme (ELIS) → Budget 2024-25
 - (2) Women empowerment in society
eg - Nakshatri Vidya Scheme
 - (3) Help schedule caste, tribes & minorities
eg - Eklavya schools (263 in India)
 - (4) Grain / food distribution to poorest of poor
eg - Nityodaya Yojana.

- Challenges →
- (1) Limited Budget
 - (2) Huge population growth
 - (3) Role of cooperative federalism

- Way forward →
- (1) Better corporate social responsibility
 - (2) Fiscal consolidation measures
 - (3) Change practices to human resource development policies

Kangrajan Committee recommendations will help us have better fiscal policies

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③ India is the largest importer of edible oil, mainly in the form of palm oil from Indonesia & Malaysia.

Factors contributing to reliance on import →

① Geographical conditions are not suitable to grow palm oil
↳ need of equatorial climate

② Lack of diversification in agriculture

③ Poor quality input for oilseed crops like sunflower etc.



④ No guarantee of procurement at MSP ↳ losses to farmers.

⑤ Longer gestation period of the edible oil crops.

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(b) Lack of mature supply chains for
extraction & packaging.

Measures needed to increase
production =

(1) Giving quality input in form
of High yield seeds to farmers.

(2) Use of price deficiency payment
to promote diversification.

(3) Building up to value addition
chain for edible crops.

(4) Promote contract farming in
agriculture.

(5) Rise of agripreneurs with
training to grow edible oils

(6) Use of alternatives like rice
bran oil.

A multi-progred policy of FARM
to BIH will promote edible
oils.

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④

Micro-irrigation is applying water at low volumes and at lower frequent intervals at the root & leaves or crops

Drip irrigation
(eg- Rajasthan)

Spunkle irrigation
(eg- Haryana)

Bamboo irrigation
(eg- Jharkhand)

Micro-irrigation as sustainable solution to water conservation

① Ensure higher water use efficiency in agriculture

② Precision fertigation techniques
↳ fertilizer + irrigation
↳ decreases water use

Haryana saved 31500 litres of water in 2023 with micro-irrigation

③ It pushes for agro-climatic zoning ↳ discourage paddy etc

④ Ensure Dryland farming in water-scarce areas.

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- ⑤ Helps in soil conservation, hence future need of water decreases.

Reasons for low adoption →

- ① The cost of equipment is high.
- ② Fragmentation of land make is unsustainable (0.51 hec average holding) issues
- ③ Salinity & clogging create problems.
- ④ Air interference in sprinkle systems is high.
- ⑤ Limited skill & knowledge to use micro-irrigation systems.

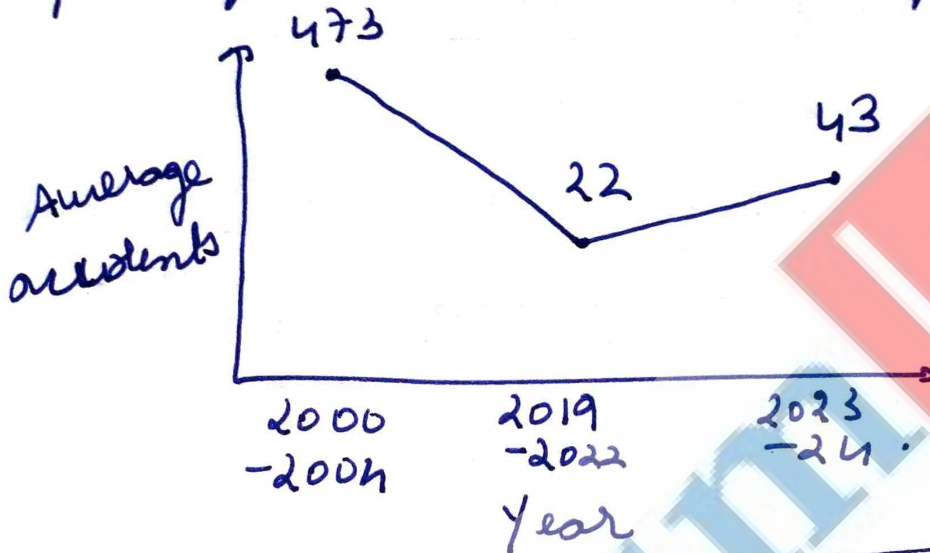
may forward

- ① promote use of farmer producer organisation for economies of scale
 - ② collateral free loans to small farmers
 - ③ Special purpose vehicle (SPV) at states for skill promotion.
- micro-irrigation will ensure CLIMATE SMART agriculture in India.

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⑤ The railway accidents like at Balsore, Hajirabagh, Patna etc. put question on railway safety



Myriad challenges with railways →

(A) Safety →

1) High number of derailments in India

2) Unmanned crossings in rural area.

3) Animal running into tracks is a issue.

(B) Under capacity →

4) Lack of track expansion & doubling

↳ only 5000 km since independence.

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(5) Low speed of trains
is only 51 kmph average (CAH report)

(6) Lack of punctuality & decrease
in freight share

(7) Lack of modernisation -

(7) Multi-modal connectivity is low

(8) Lack of bullet trains, faster
freight trains in India.

Steps needed

As per Bebrak Bebray committee -

(1) Network of dedicated corridors
(2) focus on high speed track

(3) Introduction of newer services
for riders (eg- Mande Shakti)

(4) Universal installation of KAVACH
systems for safety.

(5) Link with other logistic chains.
eg- Waterways at Varanasi

* National Rail policy that looks at
overhaul of 2030 is a crucial step in
this direction.

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⑥ NISAR is a earth-observation satellite, that will be placed in the polar orbit of earth.

NISAR = Nasa + ISRO + Apparatur Radar.

Exemplify internal cooperation →

- ① It is a combined mission by NASA & ISRO.
 - (a) designing by NASA
 - (b) launch & control by ISRO.

- ② Private sector of the nations participated in the project

- ③ The information will made available world-wide for use of research agencies

- ④ The training of satellite will be done of EU & Japan also.

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It will help in climate change
monitoring & natural hazards
monitoring.

- ① It will cover whole earth in
24 hours to give real time
data
- ② It will detect loss of ice
cover at poles & mountains
IK-wave radars
- ③ Detect rise in sea level &
warming of oceans due to
S-wave radars
- ④ Trace the movement of heatwaves
and cyclones on earth.
- ⑤ Identify the pollution hotspots
on earth to abate it.

Hence its launch in 2025 will
NEW ERA of space coordination
in world.

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(7)

Nuclear technology uses the radioactive materials like the uranium to produce energy via fission reactions.

Nuclear technology in food security & agricultural sustainability →

(1) It will ensure better pesticides & fertilizers that can fight new-age pest diseases
↳ Hence productivity will improve

(2) Radioactivity in GM crops will help to improve their yield.

(3) Nuclear energy via small modular reactors can replace diesel / electricity based tube wells.

(4) Small nuclear fuel cell can

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be used to drive tractors.

(5) Nuclear waste with treatment
can be used for reclamation of land.

Issues

- ① It can impact human health
- ② Still in experimental stage
- ③ permission to go to field trials is hard
- ④ need on huge research spending on this..

Way forward

- ① giving regulation for such technology
- ② Safe-trail system
- ③ working with international & private partners

A cautious approach with scientific temper is needed in this field.

- (8) Recently, forest fires were seen in Uttaranchal (Uhamole), Himachal Pradesh (Kulle), Assam (Morigan) & Kashmir in India.

Causes of forest fire →

1A) Natural causes →

- (1) Increasing heat wave conditions
- (2) Lightning strikes in forest
- (3) Due to presence of flammable materials like chire-pore trees in forest.

(B) Anthropogenic causes →

- (1) Camping fires in forest
- (2) Slash & burn cultivation.
- (3) Negligence by locals leading to fire.

Multi dimensional impact →

- (1) Impact lives of human.

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- (2) Destroy infrastructure like house
- (3) Release greenhouse gases in
atmosphere
- (4) Impact livelihood of locals
due to tourism decline
- (5) The biodiversity of forest
is destroyed.

Measures for prevention & ^{manag} management =

Chitale committee recommendations
will be essential -

- (1) Satellite & Drone based detection
of fire
 - (2) Early warning system &
vulnerability mapping
 - (3) Training locals at first responders
to stop fire
 - (4) Awareness in forest & campers
 - (5) fire-resistant coat on most flammable
trees.
- A multi-stakeholder approach will
protect our forest from fires.

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9

In recent surge the terrorist have moved to south of Pir Ponzal range in Doda, Kathua, Rajouri areas of J&K.

Reasons for recent surge →

① Terrain of the area in Jammu
(a) Thick forest to hide.
(b) natural caves

② Ease of infiltration from the Pakistan side
(a) Snow-free borders to 36Tx7 infiltration

③ use of sleeper cell & hybrid terror methods
↳ eg - killing of migrants.

④ Movement of defense troops from Jammu to China border

⑤ Lack of local level intelligence and police.

⑥ Connectivity to hinterlands & lack of equipments like night vision cameras.

Strategies needed →

(A) Security-related →

① Smart-border fencing using BOLD - QIT model (Madhukar Gupta Committee)

② Village defense groups in each area.

③ Establishing local intelligence with people

(B) Socio-economic steps →

① Vibrant village program to develop border areas

② Bridging trust gap with civil action (Sadbhavana mission)

③ De-radicalisation of social media in the region.

Security + winning heart & minds of people is opt strategy for T & K area.

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10

In recent events, Indians were caught doing cyber slavery in south-east nations like Comodia, malaysia etc.

Implication of cyber slavery on internal security →

- ① cyber slaves can leak critical information to terror groups
- ② It can be used for honey-trapping of security officials & important people
- ③ It can impact data breach & privacy attacks on people
- ④ financial frauds via cyber slaves can take place.
- ⑤ Can be used on cyber attack at important locations
eg - 7/11 M.S cyber attack.

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- (6) Attack of ransomware & malware is possible by cyber slaves
- (7) Cyber-slaves can be mind-washed to act as terror agents

Steps needed →

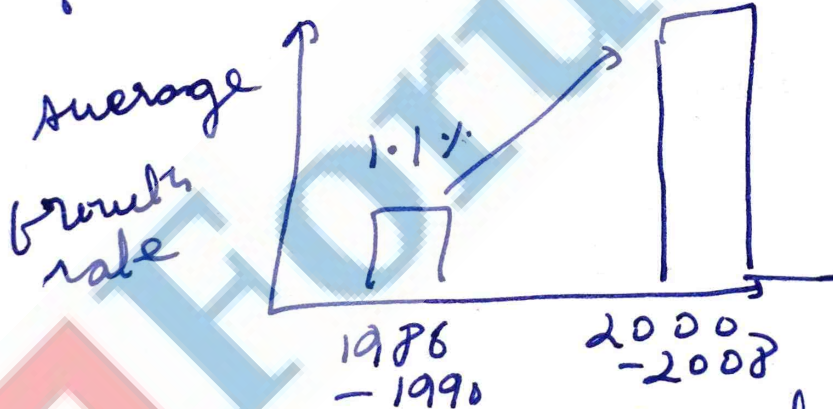
- (1) Emergency contact number for migrant labours to South Asia
 - (2) AI-based cyber-slave tracking systems
 - (3) Signing of migrant-safety pacts with other nations
 - (4) Improving the digital literacy of the population
 - (5) Establishing cyber safety measures like firewalls at important locations
- Dealing with cyber slavery will ensure online safety of Indians.

(11)

The balance of payment crisis of 1990, pushed India for 1991 LPG reforms under the leadership of P.V. Narasimha Rao & Dr. Manmohan Singh

1991 reforms enhanced India's economic dynamism →

(1) Improved the GDP growth rate of India 8.2%.



(2) Limited the fiscal deficit & improved the forex reserves of India

(3) Ensured inflow of investment & technology in India.
↳ eg - Satellite communication.

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- (4) Improved efficiency of Indian companies
- (5) Boom in the IT sector unleashed service-sector growth
↳ now 54.7% of GDP (Economic Survey)
- (6) Ensured export growth from India
↳ 470 billion yearly exports.

However, more "Reforms 2.0" are necessary →

- (1) India need to become part of global value chains (GVC)
↳ now only 40.8% integration (Economic Survey)
- (2) Need to focus on infrastructure growth for logistics betterment
↳ 11.11 lakh crore of CAPEX in India
- (3) Focus on the sunrise sector of growth
↳ like AI, Quantum etc.

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- ④ Help the start-ups to become worldwide companies
↳ 108 coins with India
- ⑤ Utilise the demographic dividend for employment & growth
eg - Employment linked incentive scheme (ELI)
- ⑥ Women-led development in the nation (McKinsey → 27% jump in GDP)
- ⑦ Use of digital public infrastructure like DPI for growth.
- ⑧ Moving to green transition in economy (sustainable development goals).

- way forward
- ① Enhancing the working of Production linked incentive (PLI) scheme
 - ② Having critical mineral supply chain in India
 - ③ Support start-ups in survive sector
 - ④ Skilling of youth.
 - ⑤ Digital literacy + financial inclusion of women.
- Reforms 2.0 will help India to be Niksit Bharat @ 2047.

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(12)

"1% growth is infrastructure,
to 1% growth in GDP &
society of the nation"
- World Bank.

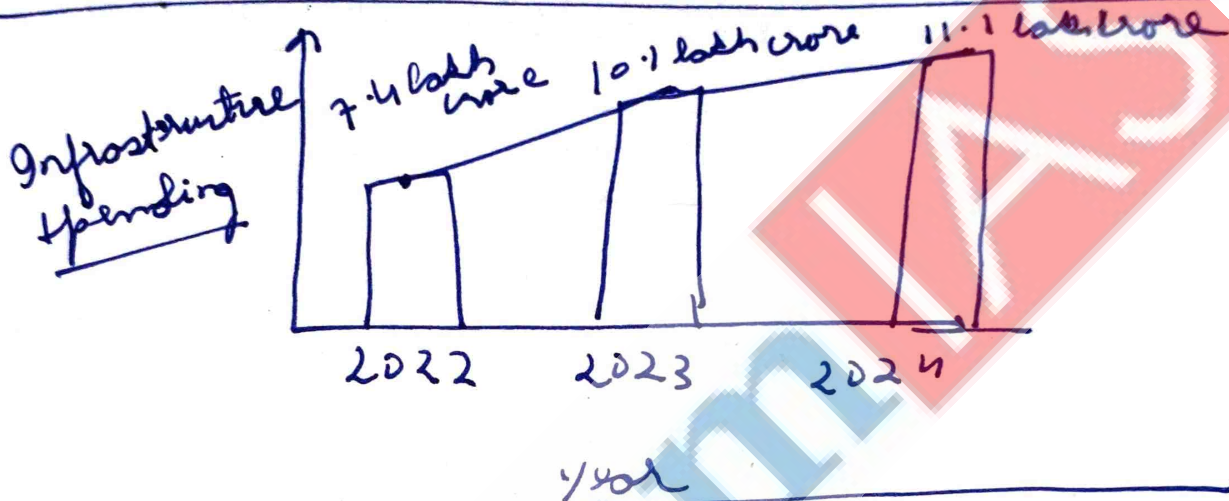
Infrastructure for Economic
transition →

- ① It attract foreign investment
in the nation.
eg - electronic manufacturing
- ② Have a huge multiplier effect on industries
↳ (a) Cement, steel etc
also grow
- ③ Improves the logistic &
helps in competitiveness of
Indian Businesses
↳ reduce logistic cost to 8%
is aim of logistic policy.
- ④ Enhance the performance of

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① Improves standard of living that ensures consumption push in economy



Infrastructure for sustainable development & societal well-being

- ① Removes the regional disparity in growth
eg - Bundelkhand road project.
- ② Helps in creating large scale employment for people
- ③ Helps in investment in green energy projects
eg - Jaisalmer solar park.

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- ④ Improves the energy efficiency of industries
eg- Green hydrogen mission.
- ⑤ Ensures digitalisation of economy & better services to people
eg. Bharat net → Online education.
- ⑥ Better urbanisation the limits the rich - poor divide
eg - PM Awas (urban) Yojana.
- ⑦ Link agriculture to industry that help in rural growth.
eg - Investment in food producing industries. no better roads.
- Way forward
- ① Infrastructure for bond market
 - ② Better PPP models (Nipay Kelkar Committee)
 - ③ Ease of doing business in infrastructure sector.
- Better infrastructure will improve the all-round social, economic & ecological development.

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(13)

Aquaculture is a sub-type of, agriculture, where inland fisheries and water intensive crops are grown / produced in the same field by farmers.

Significance of Aquaculture →

- (A) Nutrition security →
- (1) Ensure better food security for huge population of the nation.
 - (2) Ensure protein-based diet is available at cheaper rates.

~~(B)~~ Livelihood generation →

- (3) ~~(B)~~ It supplements the income of farmers with fisheries.
- (4) Cooperatives & FPA are seen around aquaculture that employ people.

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- (5) Value addition & food processing
units give job to people
- (6) Economic growth →
- (b) Ensures export growth of fisheries
↳ India is 2nd largest exporter
- (7) Limits the current account
deficit of India.
- (8) Bring investment in fishery
supply chain (eg- cold storage,
transport- etc)

Challenges to Aquaculture

- ↳ (1) Lack of good quality
breed
- ↳ (2) Lack of inputs for
fisheries at food
- ↳ (3) poor cold storage &
value addition facilities
- ↳ (4) Limited knowledge with
the farmers
- ↳ (5) waste management of fishes
is poor leading to salinization

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+ skilling of people(b) focus on breed & cage culture(2) Shrimp genetic breeding center
for better breed of fishers.(3) Fisheries development fund (FIDF)
for cooperatives to get
grants & cheap loans.(4) loan via Kisan Credit Card
to agriculture farmers.(5) Marine product Export
development agency (MPEDA) to
support farmers.Aquaculture will be the
backbone of sustainable & innovative
farming in India.

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The MSP refers to a minimum price guaranteed by government for produce of farmers. It is announced on 22 crops by the government (14 Kharif + 6 Rabi + 2 commercial crops).

MSP is well intentioned -

- (1) It look to secure income of farmers.
- (2) Push investment in agriculture by farmers.
- (3) Act as nudge for crop diversification.
- (4) Encourage price transparency at the local mandi level.
- (5) Ensure that the market price is in line with M.S.P.

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But it leads to market distortions
& ecological stress →

- ① It hampers the crop diversity
by procuring rice-wheat system
↳ 82% food crops are rice &
wheat in India.
- ② Higher MSP prices distort markets
leading to inflation trends.
- ③ Open procurement policy leads to
huge subsidy burden
↳ ₹2.4 lakh crore subsidy.
- ④ Low procurement of pulses &
oilseeds distort their productivity
↳ only 10% pulses & 0.4% oilseeds
are procured.
- ⑤ It distorts the soil health due
to over-fertilisation

CASE STUDY :- In Punjab soil has
NPK ratio of 31:8:1 (ideal 4:2:1) due
to growth of paddy

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① Leads to over-extraction of groundwater to grow crops like sugarcane.

Reforms for inclusive & efficient system →

Ashtak Dalwai committee recommendations can be followed →

① Crop neutral subsidies by direct benefit transfer (DBT)
eg - PM Kisan Samman

② Price deficiency payment for all farmers (PM-APDA)

③ use of MRP formula into the contract farming agreements.

④ Focus on decentralised procurement by states & private players.

⑤ NAFED to undertake vegetable, pulses & oilseed procurement.

Reformed MRP will fulfill the aim of doubling farmer's income in India.

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15

Biotechnology refers to the use of living organisms or their parts to make genetically modified products to human use.

Biotechnology has immense potential for →

↳ enhancing food production sustainability

↳ high yield variety of seeds can be made

eg - Jonalika wheat by ICAR

↳ GM crops are made which are pest-resistant.

eg - GM cotton.

↳ nutrition-rich crops helps in solving malnutrition issue

eg - Golden-rice → Vitamin A.

↳ less climate intensive crops can be made

eg - GM Rubber → need less water.

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(B) Efficient waste management -

- (1) Bio-remediation can be used to decompose waste.
- (2) used to make eco-friendly plastic out of vegetable waste
- (3) used as oil sappers to remove oil spills at sea.

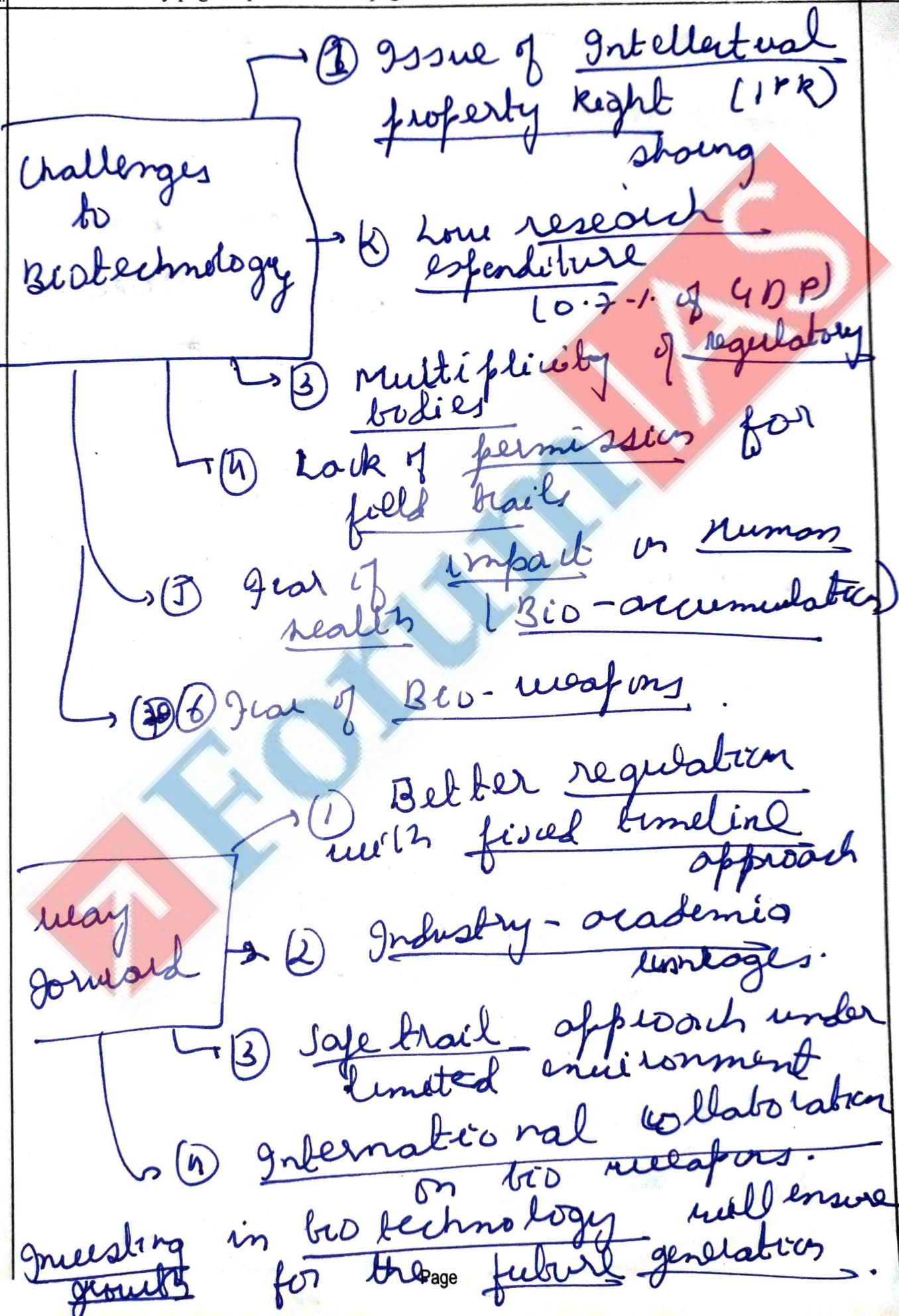
(C) Advancement in Human health -

- (1) making effective vaccines for many diseases
- (2) Gene-editing is used to cure genetic disorders and cancerous cells
eg - use of CRISPR - technology & CART-T cells technology.
- (3) Targeted drug delivery by nanomicelles.
- (4) used to make assisted devices & therapeutics for people

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16

According to the World meteorological organisation, 2024 is the warmest year on earth with average temperature just 1.3°C above pre-industrial revolution level. This is particularly due to climate change.

significant alternation of eco-system & cascading effect on -

(A) Biodiversity

1) Affect lives of animals
like - Polar Bear.

2) Insects and small animals are disappearing

3) Global diversity limited by invasive species.

(B) Ecosystem services

1) Rainfall is decreasing

2) Heatwaves are increasing

3) Carbon storage by nature is affected

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eg - permafrost are decreasing.

(1) Human livelihood →

1) decreasing forest affect the
livelihood.

2) The productivity of the labour
is decreasing.

3) Disasters are affecting livelihood
eg - floods.

Necessity of integrated approach
for conservation & climate
adaptation →

① It will protect the important
centers of carbon sequestration
eg - forest, high seas etc.

② It will ensure the adaptation
of green energy alternatives
eg - rooftop solar.

③ Push the private sector to
work for climate safety
eg - green steel making.

इस हार्डिप
में केवल
प्रश्न संख्या
लिखें।

Specimen Booklet

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For Practice Purpose Only

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- (4) Ensure afforestation and agro-forestry by people
eg - Ek pad mas ke naam in iti abud
- (5) Ensure environment budgets are made in each nation.
eg - Green GDP in Uttarakhand.
- (6) Ensure disaster resilience of the vulnerable community
eg - Bio-shield in coastal area.
- (7) Use of technology to limit climate change.
eg - smart alliances that are energy efficient.
- Hence the steps like LiFE → Lifestyle for environment are crucial ones to fight the climate change issue with unity.

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(17) India carbon centers are responsible for 70% of the CO₂ of the nation, and have start-ups, industries etc. They are also marked by rationality making them cradles of civilisations.

However they are increasingly experiencing disasters →

(A) Natural Disasters →

(1) Heat waves in urban area.

eg - May 2024 Heat wave in Delhi

(2) Flooding due to heavy rainfall

eg - Chennai 2020 floods.

(3) Drought like conditions due to water scarcity.

eg - Bangalore in 2024

Candidate must adhere to the word limit specified in the question.
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(4) highly prone to landslides..

eg - Shimla landslides

(5) Regular destruction by cyclones

eg - Bhubaneswar.

(3) Man-made disaster -

(1) water - logging related ~~near~~ disasters.

eg - Basement deaths in
Delhi's coaching center.

(2) Fire incidents have increased

eg - Surat - fires in 2022

(3) Building collapse due to

poor quality material
eg - Mumbai building
collapse -

(4) Rampage and Stampede are

seen

eg - Stampede in temple
near Patna in 2024

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Mitigation & management strategies =

- ① Removing the encroachment from flood plains & lake areas.
 - ② Topography-based scientific assessment of new building projects
 - ③ Building codes enforcement & regular audit with strict
 - ④ pre-monsoon de-silting of drains in cities.
 - ⑤ Rain water harvesting & flood water drainage to be compulsary (Daniel roader model)
 - ⑥ Focus on disaster-resilient city planning eg-cool shelters
 - ⑦ Capacity building & awareness generation in the people.
- The steps will help us reach
sustainable Development Goal-11
of Better & inclusive cities

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(18)

According to the world disaster atlas, India is 5th most disaster affected country in the world. Yet its progress in disaster management framework help it to minimize loss.

Progress in disaster management framework -

- (1) Establishing national disaster management authority (NDMA) as fix guidelines for each ministry during disaster.
- (2) India has NDRF & JDRF for quick response
- (3) Effective use of Bio-shields to protect from disaster
eg. mangroves, heat caps.

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(4) Disaster - resilient infrastructure has been developed
eg - pillared housing in Kerala

(5) Early warning system has imposed
eg - India has 60+ Doppler radars.

(6) use of satellite imaging to trace the impact of disaster

(7) Ers Insurance like crop insurance (PM - Jeeva Bima) to protect the vulnerable from disaster.

However there are challenges in timely response & effective coordination.

(1) The hinterlands & mountains still lack the EWI systems

(2) Local police & administration are not trained to respond effectively in disasters.

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इस हार्जिए में केवल प्रश्न संख्या लिखें।
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(3) HI-weather connectivity to all ~~area~~ areas is missing affecting response

(4) Role of agencies like armed forces is not fixed during response.

(5) Emergency communication networks are missing.

(6) Federal issues create the union-state coordination problem.

may forward

The WOMIT guidelines to be followed →

(1) National disaster communication infrastructure

(2) Disaster control rooms at district level

(3) Super-local forecast by IMD

(4) Capacity building of locals.

Better response to disasters will help in Relief & Rehabilitation of people.

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19

According to the UN terror portal India have more than 240 terror groups active in the country. Most of them are strongly linked to organised crimes.

Symbiotic relationship aggravating internal security →

- ① Organised crimes like drug trafficking is used to finance terror activities
- ② The human-traffickers provides for recruits for terrorist creating challenges
- ③ Cross border movement of arms give fire-power to terrorist. eg - golden triangle arms movement in manipul subborder.

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- (4) Both of them use social media to radicalise society and hamper social harmony
- (5) They discover same routes & channels for smuggling & information purpose
eg - Drone routes used in J&K.
- (6) They use sleeper cells network & overground workers to increase their reach.
eg - recent dober-based terror module is Sharkhand.

Steps to address the link age & threat -

- (1) Improving the border security of the nation
(a) Use of check-posts, SOLD - QIT etc.
(Madhukar Gupta committed).

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- (2) Regulate the cryptocurrency transactions to debust the financial module
- (3) use of bank - KYC modules to regulate black money trails
- (4) use of A-I modules like LOG MINT to keep wigil on social media.
- (5) Increase the capacity of state police to deal with such modules
- (6) working on local level intelligence & community policing to debust sleeper cells.

Kerala police use cyber dome systems to deal with terror modules

Hence a hard power & soft power mixed approach is needed to deal with crime-terror linkage.

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(20)

India has a huge 15100 kilometers of land borders and 7500 kilometers of maritime border making border security a huge task in itself.

For Robust & Effective border management, we need -

(A) Strengthening security of posture

(1) It will limit the cross-border terror movement
eg - CIMBS smart fencing at border.

(2) Ensure specialised forces for border ops, as per terrain
eg - CRPF mountain battalion at Jammu.

(3) Limit the usage of drones
eg - Major sentinel system.

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(4) Ensure a limit on human,
drug & arm trafficking
eg - integrated check post
like Ghoja & Bhajo with
Bangladesh.

(5) Strengthening frontal area
connectivity & infrastructure
eg - D-D-BD road on China
border at Zodakh

(B) Forging development partnership
with locals →

(1) It bridges the trust gap
between security forces & locals.
eg - Mission Sadbhavana
in Kashmir

(2) It weakens the alienation
of youth that push them
to radicalisation
eg - Migrant village program.

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(3) Local government & tribal rights ensures growth of areas.

(4) Establish the local level intelligence & diffuse only sleeper cells.

(5) The financial & logistic support to militants become limited
eg - operation Sarvashakti in Jammu.

Further steps needed →

(1) Use of AI-based cameras to track movements

(2) Better tele-medicine facilities in border villages

(3) Sponsorships & clinic opening to raise leaders in these areas
Hence erecting fence at borders & melting fence at heart is key to border management.