

65 min → 8 x 10 marks

12 pm
Phase II

RECEIVED

02 SEP 2024

NEXT IAS

GS MAINS ADVANCED COURSE 2024

(To be filled by candidate)

TEST CODE : GSMAC2407

Test No. : 07

Name of Candidate: Raghu Thun Thunwala Mobile No.:Roll No. : GSMAC24A1055 Start Time: 3:00 End Time: 5 min extraDate of Examination: 30 Aug, 2024 Medium : English Hindi

Q. No.	Maximum Marks	Marks Obtained
1	10	
2	10	
3	10	
4	10	
5	10	
6	10	
7	10	
8	10	
9	10	
10	10	
TOTAL MARKS - 100		

Q. No.	Maximum Marks	Marks Obtained
11	15	
12	15	
13	15	
14	15	
15	15	
16	15	
17	15	
18	15	
19	15	
20	15	
TOTAL MARKS - 150		

GRAND TOTAL -/ 250

EVAL CODE: EVAL DATE:

GENERAL INSTRUCTIONS

- Immediately on receipt of the QCA booklet, please check that this QCA booklet does not have any misprint or torn or missing pages or items, etc. If so, get it replaced by a fresh QCA booklet.
- Candidates must mention all relevant details like Name, Email, Roll No, Mobile, etc. in the space allocated.
- Candidate is expected to attempt all 20 questions within the given timeline.
- Answers must be written in the medium authorized at the time of admission.
- Candidates must write answers for the specific question under the respective question itself. Any answer written outside the space allotted may not be given credit.
- Please write neatly. Avoid illegible writing.
- Do not write/mark irrelevant matters in the QCAB.

सामान्य निर्देश

- QCA पुस्तिका प्राप्त होने पर कृपया तुरंत जांच लें कि इस QCA पुस्तिका में कोई पृष्ठ या सामग्री आदि गलत छपी हुई या फटी हुई या गायब तो नहीं है। यदि ऐसा है, तो इसे एक नई QCA पुस्तिका से बदल लें।
- अभ्यर्थियों को सभी प्रासंगिक विवरण जैसे नाम, ईमेल, रोल नंबर, मोबाइल नंबर आदि का आवंटित स्थान पर उल्लेख करना होगा।
- अभ्यर्थियों से अपेक्षा की जाती है कि वह आवंटित समय-सीमा के भीतर ही सभी 20 प्रश्नों के उत्तर-लेखन का प्रयास करें।
- प्रत्येक उत्तर, प्रवेश के समय चुनी गयी भाषा के माध्यम में ही लिखे जाने चाहिए।
- अभ्यर्थियों को विशिष्ट प्रश्न के उत्तर संबंधित प्रश्न के नीचे ही लिखने होंगे। आवंटित स्थान के बाहर लिखे गए किसी भी उत्तर को क्रेडिट नहीं दिया जाएगा।
- कृपया साफ-सुथरा लिखें। अपठनीय लेखन से बचें।
- QCAB में अप्रासंगिक तथ्यों को न लिखें / न ही चिह्नित करें।

REMARKS:

FOR OFFICE USE ONLY

Student Concerns / Query

1

.....

.....

.....

2

.....

.....

.....

3

.....

.....

.....

Evaluator's Feedback / Response

1

.....

.....

.....

2

.....

.....

.....

3

.....

.....

.....

MARKING SCHEME *

Marks Per Ques	Below Average	Average	Above Average
10 Marks	Below 3.00	3.00 - 3.75	4.00 and above
15 Marks	Below 4.50	4.50 - 5.75	6.00 and above

* Subject to change without prior notice.

IMPORTANT QR CODES



Topper's Copy



Common mistake and Correct Filled QCAB



Copy Scanner App



Next IAS Test Centre Location

MACRO COMMENTS

The Purpose of evaluation@nextias.com is to provide constructive suggestions on 'How to improve Answer Writing and thereby score better marks.

STRENGTHS OF THE CANDIDATE

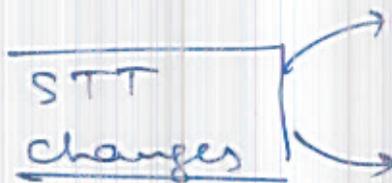
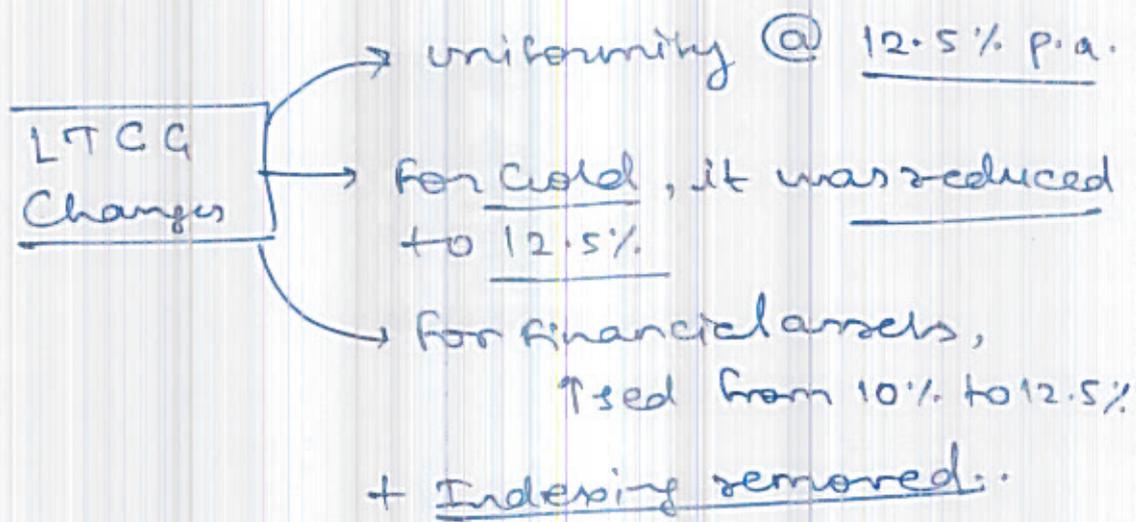
AREAS OF IMPROVEMENT

IMPROVEMENT SUGGESTIONS

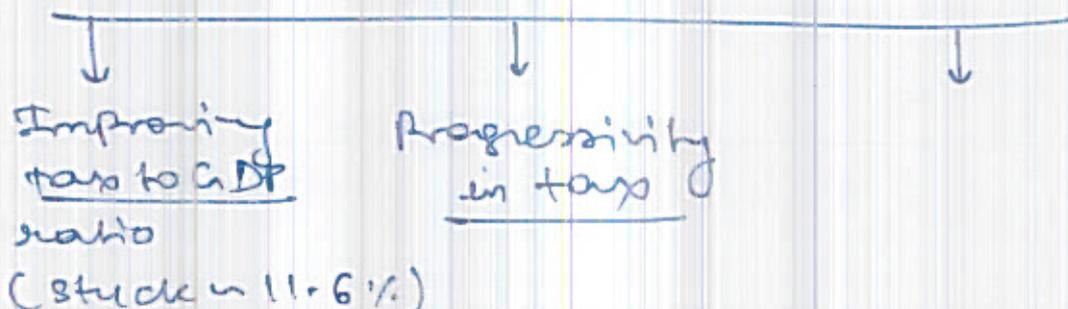
1. केंद्रीय बजट 2024-25 में दीर्घकालिक पूंजीगत लाभ (LTCG) और प्रतिभूति लेनदेन कर (STT) के संबंध में महत्वपूर्ण परिवर्तनों पर टिप्पणी कीजिए। भारत की बचत और निवेश व्यवस्था पर ऐसे परिवर्तनों के प्रभावों का मूल्यांकन कीजिए।
(10 अंक, 150 शब्द)

Comment on the important changes with respect to the Long-Term Capital Gains (LTCG) and Securities Transaction Tax (STT) in the Union Budget 2024-25. Evaluate the impact of such changes on India's savings and investment regime.
(10 marks, 150 words)

Budget 24-25 demarcated imp. tax reforms with respect to LTCG, STCG and STT



Rationale behind



Impact on Savings & Invest.

- ① Financial Investors are now slightly worse-off : may disincentivize stock trade.
- ② ↪ Savings may rise

2. भारत की एक कल्याण योजना "कोई भी व्यक्ति पीछे न छोड़े" की कहावत के साथ आगत-आधारित दृष्टिकोण से परिणाम-आधारित सशक्तिकरण में परिवर्तन आया है। उपरोक्त कथन के आलोक में, चर्चा करें कि सरकार के दृष्टिकोण में इस परिवर्तन ने समावेशी विकास को किस प्रकार बढ़ावा दिया है। (10 अंक, 150 शब्द)

India's welfare scheme has undergone a shift from an input-based approach to outcome-based empowerment with the maxim of "no person left behind". In light of the above statement, discuss how this change in the approach of the government has fostered inclusive growth.

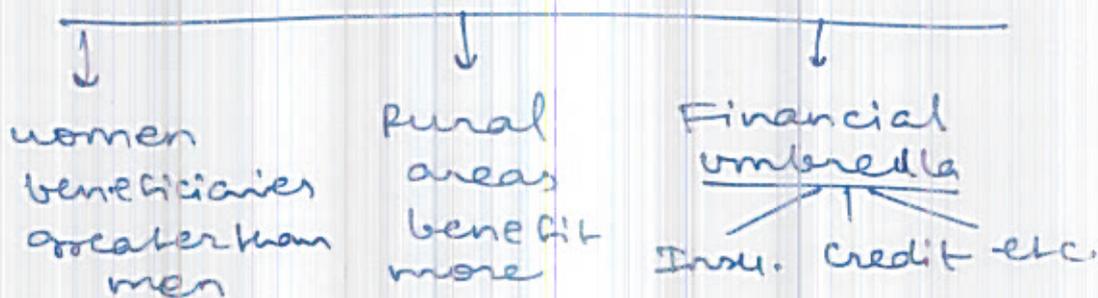
(10 marks, 150 words)

The older Input based approach focussed more upon size of govt. outlays for the scheme. current approach focusses more on outcomes (transformation).

Fostering Inclusive Devt

① Financial Inclusion

Ex: JDY → over 50 cr. Bank A/c



② Ujjwala Yojana

Clean cooking fuel availability

↳ Involvement of NAOs like

social cops to curb corruption.

③ PM-VISHWAKARMA

↳ skill development of Artisan,
generally uncatered section

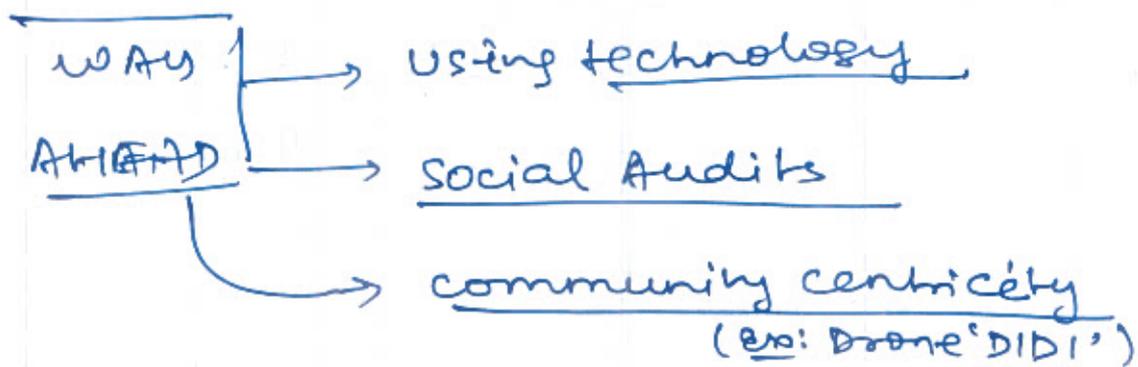
④ PM-SVANidhi ; etc

↳ Street vendors ; Self Employment

↳ over 210,000 support

⑤ LIFE approach ; focus upon
sustainability to ensure
'Intergenerational Equity'

⑥ Accessible India Campaign,
Right of PwD Act, 2016, etc.



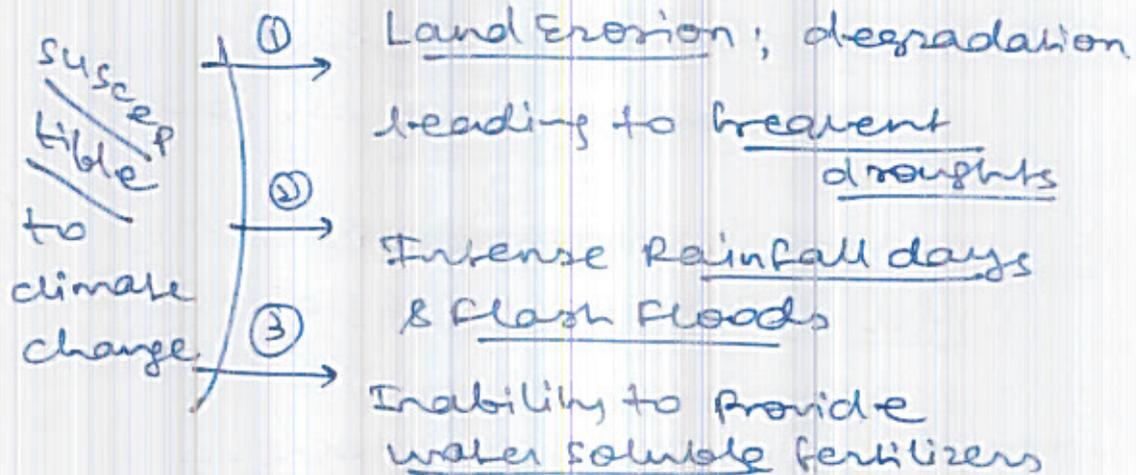
Thus, the philosophy of 'Antodaya'
i.e. welfare of person in the
last position is critical to ensure
'Sarvodaya' (Growth of all).

3. भारतीय कृषि की वर्षा आधारित प्रकृति इसे जलवायु परिवर्तन को प्रति अधिक संवेदनशील बनाती है। कृषि की जलवायु-अनुकूलता में गुणवत्तापूर्ण सिंचाई के महत्व पर प्रकाश डालिए। भारत में उपलब्ध सिंचाई पद्धतियों की समग्र दक्षता में सुधार के लिए क्या-क्या उपाय किए जा सकते हैं? (10 अंक, 150 शब्द)

The rainfed nature of India's agriculture makes it more susceptible to climate change. Highlight the importance of quality irrigation in the climate-adaptability of agriculture. What measures can be undertaken to improve the overall efficiency of the available irrigation practices in India?

(10 marks, 150 words)

As per min. of Agri; over 51% of India's cropped area is rainfed.
monsoon is called 'Real Finance minister!'



Importance of Quality Irrigation

- ① Increasing yield
-
- | Country | Rice yield (tonne/ha.) |
|---------|------------------------|
| India | 2.6 |
| China | 4.9 |
- ② Upon assured irrigation, farmers could invest @ better HYV seeds etc.
- ③ minimize crop losses
 ↳ (Farmer ↓) (Demand for loan waiver ↓)
 ↳ (Suicide ↓)

④ Ashok Gulati

↳ Rise in Public Expenditure

@ Agri ⇒ crowds in Pub. Expendit

Improving Present Irrigation setup

Current

Desired

① Prevalence of
ground water
borewells
(> 2 lakh cr. p.a.
subsidy)

① Promoting micro
Irrigation
(Drip, sprinkler, etc)

② Lack of
maintenance of
Canals, etc.

② Suaminathan Co.
recommended
to improve it.

③ Lack of
Rain harvesting

③ Check dams,
Bunds, etc

Court. vision : Krishi Sinchai Yojana
(Har Khet ko Paani)
& (Per Drop, more crop)

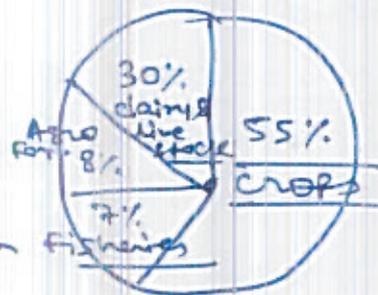
Increasing collab with best
performers like Israel and
promoting ICAR, etc. is the
way ahead.

4. भारतीय कृषि में पशुधन के महत्व को ध्यान में रखते हुए, विश्लेषण करें कि पशुपालन में निवेश भारतीय कृषि को प्रोत्साहित करने में किस प्रकार मदद कर सकता है। (10 अंक, 150 शब्द)

Considering the importance of livestock in Indian agriculture, analyze how investment in animal husbandry can help in incentivizing Indian agriculture. (10 marks, 150 words)

Ashok Dalwai committee to Double Farm Income laid great stress upon Agri diversification. Livestock is one such avenue.

Importance of livestock



- (i) Income Diversification & Augmentation beyond cropping.
- (ii) Gender Empowerment: due to feminization of Agri.
- (iii) Nutritional Security: Protein source
- (iv) no lean period like cropping
↳ stable returns
- (v) Less price volatility than crops.

Animal Husbandry \Rightarrow Incentivizing Indian Agri

① Exports & Forex Earning

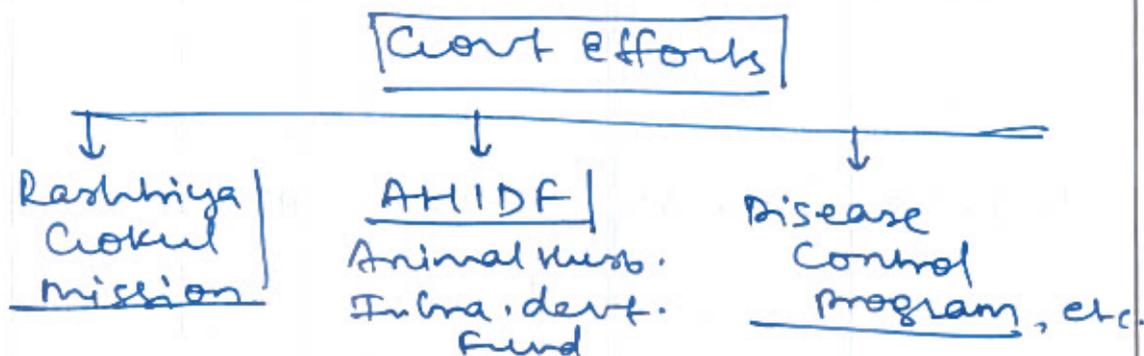
(India: largest buffalo meat exporters)

② Employment generation

Animal Shed \rightarrow carpenters
 \rightarrow woodcutters
 \rightarrow operational tasks, etc.

③ curtailing Food Inflation by improving availability.

④ Reducing Pressure upon cropping and diversification.



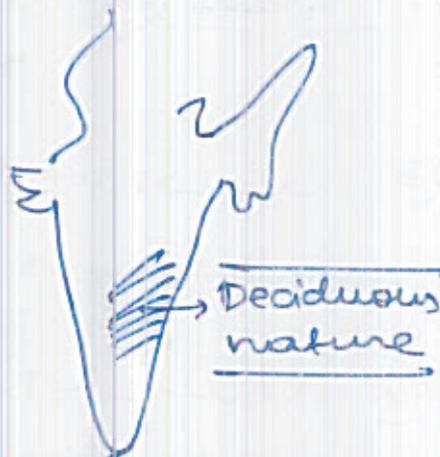
curtailing veterinary diseases, improving access and affordability of Animal feed should be the immediate operating targets.

5. आंध्र प्रदेश में भारतीय लॉरल वृक्षों (Indian Laurel trees) की खोज ने पेड़ों में पानी को संग्रहीत करने और छोड़ने (store and release) की क्षमता में वैज्ञानिकों को रुचि जगाई है। इस संदर्भ में, पेड़ों में जल परिवहन और भंडारण (transportation and storage) की प्रक्रिया के पीछे के विज्ञान की व्याख्या कीजिए। (10 अंक, 150 शब्द)

The discovery of Indian Laurel Trees in Andhra Pradesh has sparked the interest of scientists in the capacity of trees to store and release water. In this context, explain the science behind the process of water transportation and storage in trees. (10 marks, 150 words)

The recent discovery of Laurel Tree
@ Andhra Pradesh has fascinated
Researchers woth uniquene water
holding capacity

Fig:
Regional
distribution

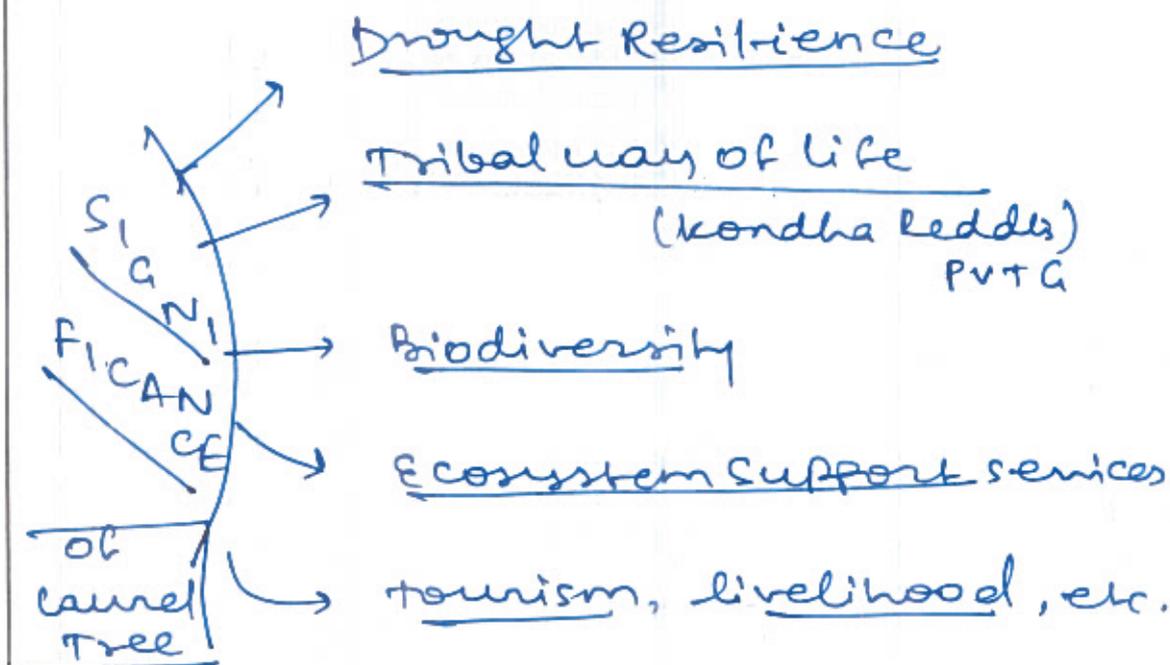


Science behind water transport
& Storage :

- ① Role of Roots : Absorb water from soil moisture.
- ② Role of Xylem : vascular tissue, mainly responsible for transporting water to leaves for respiration.

III) Role of leaves : Respiration,
 (loss of water to regulate temp)
photosynthesis
 ↳ use water to make food
 (later transported by phloem)

IV) leaves : Augment system to store water ; Eg : Desert plants
 (waxy leaves, sunken pores to min. water loss)



Protecting Biodiversity & Species
 via Protected Area network is
 key mandate of govt.

6. सैन्य क्षेत्र में जिम्मेदार कृत्रिम बुद्धिमत्ता पर हाल ही में आयोजित वैश्विक शिखर सम्मेलन (असईएआईएम, 2023-responsible artificial intelligence in the military domain) ने सैन्य अनुप्रयोगों में कृत्रिम बुद्धिमत्ता के उपयोग से जुड़े अवसरों, चुनौतियों और जोखिमों को प्रदर्शित किया। इस संदर्भ में, रक्षा और सैन्य अनुप्रयोगों में कृत्रिम बुद्धिमत्ता के प्रभाव का आलोचनात्मक विश्लेषण कीजिए। (10 अंक, 150 शब्द)

The recently conducted global Summit on Responsible Artificial Intelligence in the Military Domain (REAIM, 2023) showcased the opportunities, challenges and risks associated with the use of Artificial Intelligence in military applications. In this context, critically analyse the impact of Artificial Intelligence in defence and military applications. (10 marks, 150 words)

" AI can be the best or the worst thing to happen to mankind."

— Stephen Hawking

AI @ military

O
P
P
O
R
T
U
N
I
T
I
E
S

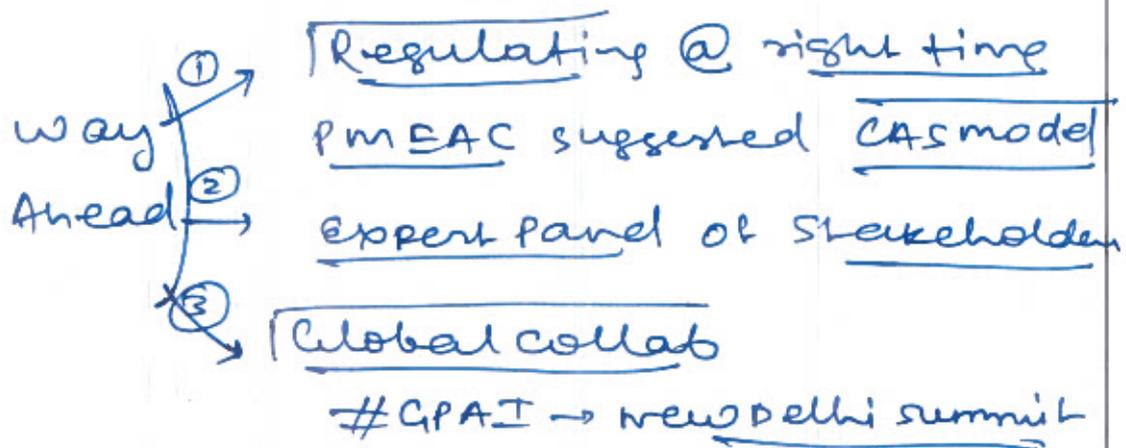
- ① → Research & Devt. spending rise to develop new tech.
- ② → Reducing human & manpower casualty
- ③ → Improved & borderless border surveillance
Ex: CIBMS technology proposed by Shekatkar committee.

Challenges of AI @ military & Risks

- ① Run-away AI
↳ threat that AI may become uncontrollable later.

- ② Hidden Identity
↳ fuel mistrust
among nations.
- ③ Rise in role of non state Actors
↳ new security Challenges.
- ④ Turing test & Frontier AI]: Beyond
Human
Intellect
to counter.
- ⑤ Error & lack of
Emotional Intelligence

(Ex: Encouraging militants to
surrender before killing)



India has launched #AI for All
and #ARISE campaigns to
promote ethical progression of
AI for betterment of Humanity

7. लोक लेखा समिति ने हाल ही में प्लास्टिक प्रदूषण के बढ़ते खतरे के बारे में चिंता व्यक्त की है। इस संदर्भ में, प्लास्टिक प्रदूषण को रोकने के लिए सरकार द्वारा हाल ही में प्रारम्भ की गई पहलों पर प्रकाश डालिए। (10 अंक, 150 शब्द)

The Public Accounts Committee has recently flagged concerns about the rising menace of plastic pollution. In this context, highlight the recent initiatives taken by the Government to curb plastic pollution. (10 marks, 150 words)

PAC report highlighted that India is now amongst Top 5 nations globally wth Plastic Pollution.

Challenges highlighted

- ① Poor set of guidelines by CPCB wth EPR norms
- ② Poor state of segregation, collection, processing, etc.
- ③ High % of open incineration due to lack of awareness.
- ④ Non Enforcement of bans and regulations.
- ⑤ Dysfunctional waste to Energy plants → Poor capacity of ULBs
- ⑥ Lack of proper Penalties over public littering.

Impacts

- (i) Health Hazard
- (ii) cows, stray animals choke & die.
- (iii) Ecosystem productivity ↓
- (iv) Aesthetic ↓ ; Tourism ↓ , etc.

Govt. Measures

- (1) Ban on SUPs (Single Use Plastics)
- (2) EPR (Extended Producer Resp.)
by P/BO (Producers, Importers,
Brand owner)
- (3) W2E:
waste to Energy

Way Ahead

- ① Effective monitoring by CPCB
- ② Stricter penalty on improper disposal
- ③ LIFE: Reduce, Reuse, Recycle
(Behavioral change)

we must focus upon Point of Source segregation, proper

collection & Supply Chain mgmt overall.

8. भूस्खलन एक प्राकृतिक घटना के बजाय मानव-प्रेरित घटना बन गई है। भूस्खलन की बढ़ती घटनाओं के कारणों पर प्रकाश डालें और आपदा को कम करने के लिए क्या उपाय किए जा सकते हैं। (10 अंक, 150 शब्द)

Landslides have become more of a human-induced phenomenon rather than a natural phenomenon. Highlighting the reasons for increasing incidences of landslides, suggest measures that can be undertaken to mitigate the disaster. (10 marks, 150 words)

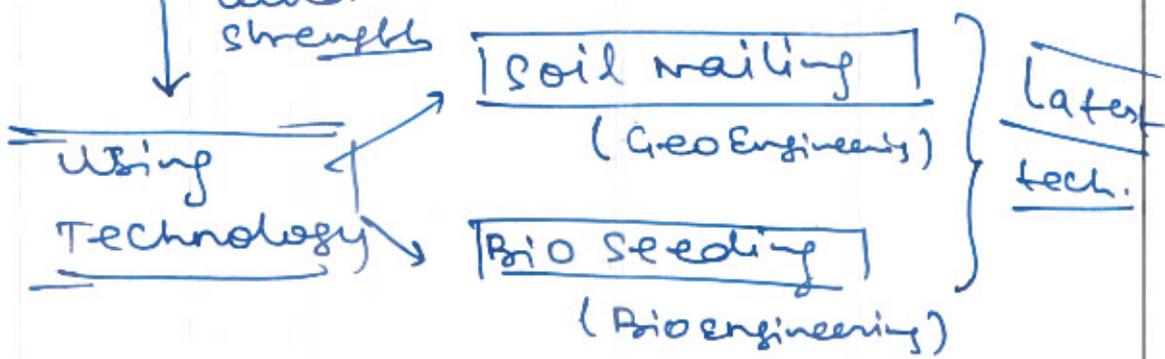
The recent wayanad landslides claimed over 300+ lives and immense loss of livelihood & Property.

Human Induced nature on rise

- ① Global warming
($>1.5^{\circ}\text{C}$ breached already)
 - ② warming of Arabian sea
↓
 - ③ cloud forcing; Atmospheric rivers
↑sed presence of PM particles
phenomena
 - ④ Intense Rainfall events
(cloudbursts, etc.)
 - ⑤ soil Erosion, loosening
 - ⑥ unchecked deforestation
for Agri, tourism, etc.
 - ⑦ unchecked construction
without proper EIA (Himalayas, etc.)
- EASIER for land slides to occur

Required mitigation measures

- | <u>STRUCTURAL</u> | <u>NON STRUCT.</u> |
|---|---|
| ① wall & boulder mesh along roads. | ① Proper <u>EIA</u> process with better <u>monitoring</u> later |
| ② <u>Disaster resilient Infra</u> : Ex: Jammu > <u>Dhaji Diwar</u> | ② Development keeping in mind ' <u>carrying capacity</u> ' |
| ③ <u>GeoEngineering</u> & latest tech. use
↓ Enhancing land strength | ③ <u>community training</u> : <u>AARDA</u> <u>MITRA</u> |



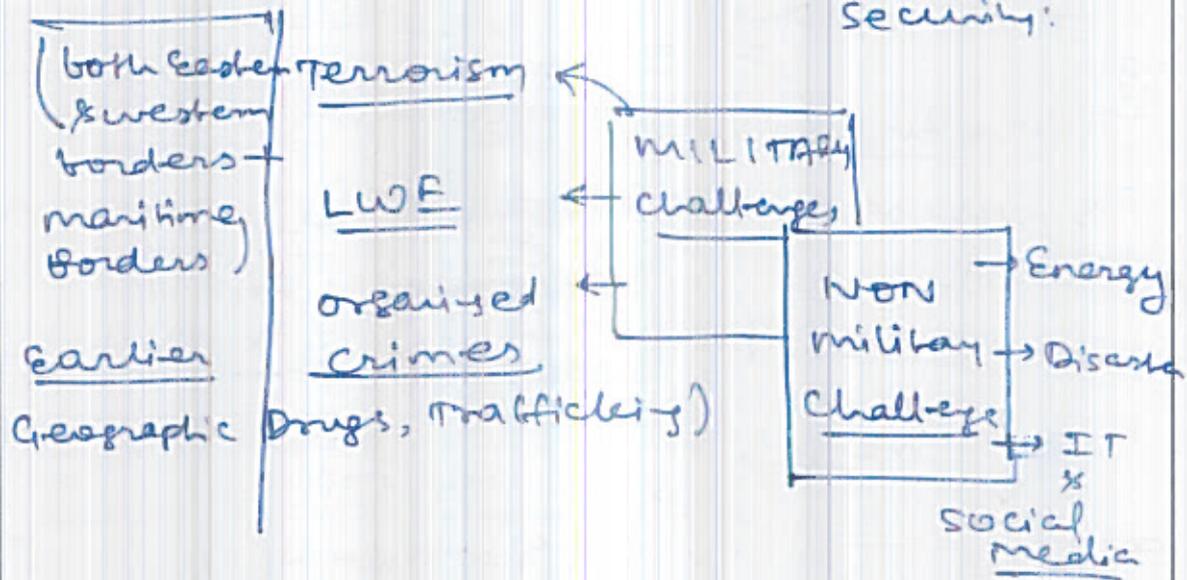
NDMA runs 'national Landslide Risk Reduction Plan' for the same.

To prevent immense loss of life & property, immediate & comprehensive measures are pertinent.

9. राष्ट्रीय सुरक्षा के लिए खतरे धीरे-धीरे "भौगोलिक" से "विषयगत" (thematic) में बदल गए हैं। इस संदर्भ में, आंतरिक सुरक्षा की समकालीन चुनौतियाँ (contemporary challenges) क्या हैं और ऐसी चुनौतियों से निपटने के लिए क्या उपाय किए जा सकते हैं? (10 अंक, 150 शब्द)

The threats to national security have gradually transformed from being "geographic" to being "thematic". In this context, what are the (contemporary challenges) of internal security and what measures can be undertaken to deal with such challenges? (10 marks, 150 words)

The CDS of Indian Armed Forces recently emphasized upon evolving 'Thematic Challenges' of national security:



CONTEMPORARY Challenges

measures Required

① Infiltration
(esp. after Bangladesh crisis, Myanmar & Afgh.)

a) CIBMS
state of art technology

b) Border fencing

② Drone based Drug, Arms delivery

Low drone detection team

Contemp. Issues

Required measures

③ Cybersecurity threats

joint doctrine released recently

④ Organized Crimes

(Extortion, etc.)

India lacks a dedicated law
 mah. govt. has brought a dedicated law.

⑤ Energy security

Protecting critical Infra (tarapur nuclear)
 Maritime Patrols
 collab with Saudi, Egypt, etc to tackle Red Sea crisis

Steps taken → Integrated Theatre Command
 → Post of CDS
 → cross country collab
 (Ex: MALABAR Exercises)

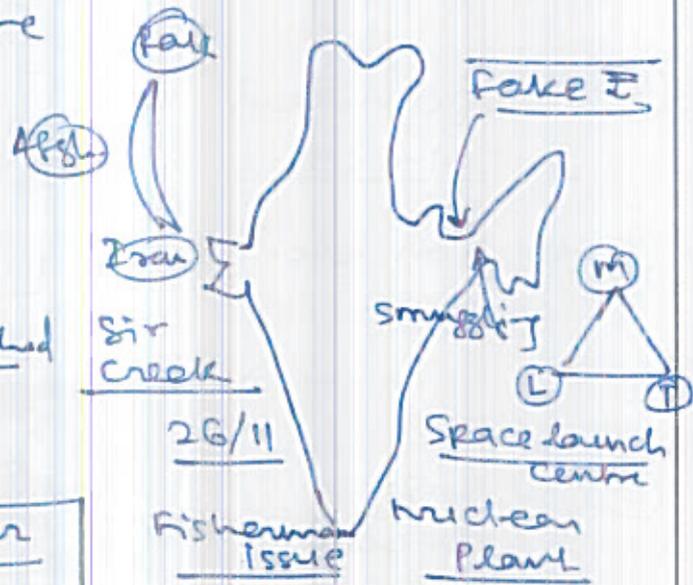
Thus, a comprehensive measure is sine-qua-non, as was reflected by Kargil Review report.

10.

भारत के सीमा सुरक्षा ढांचे को मजबूत करने और सीमा पर खतरों से निपटने में उन्नत सीमा निगरानी प्रौद्योगिकियों (enhanced border surveillance technology) की भूमिका का मूल्यांकन कीजिए। (10 अंक, 150 शब्द)

Evaluate the role of enhanced border surveillance technologies in bolstering India's border security framework and addressing cross-border threats. (10 marks, 150 words)

India has over 15,250+ km Land and 7500 km+ marine border, albeit in a non-stable S-Asian neighbourhood



Role of Border surveillance

- ① curbing organized crime
 - ↳ 3,000+ kg drugs received @ mumbai port last year
(critical role of customs dept, team)
- ② Infiltration reduction
 - ↳ peace to J-K valley
 - ↳ curbing N-E insurgency (op. Atclean, Sunrise, etc.)
- ③ cutting source of funding via curbing fake ₹ supply.

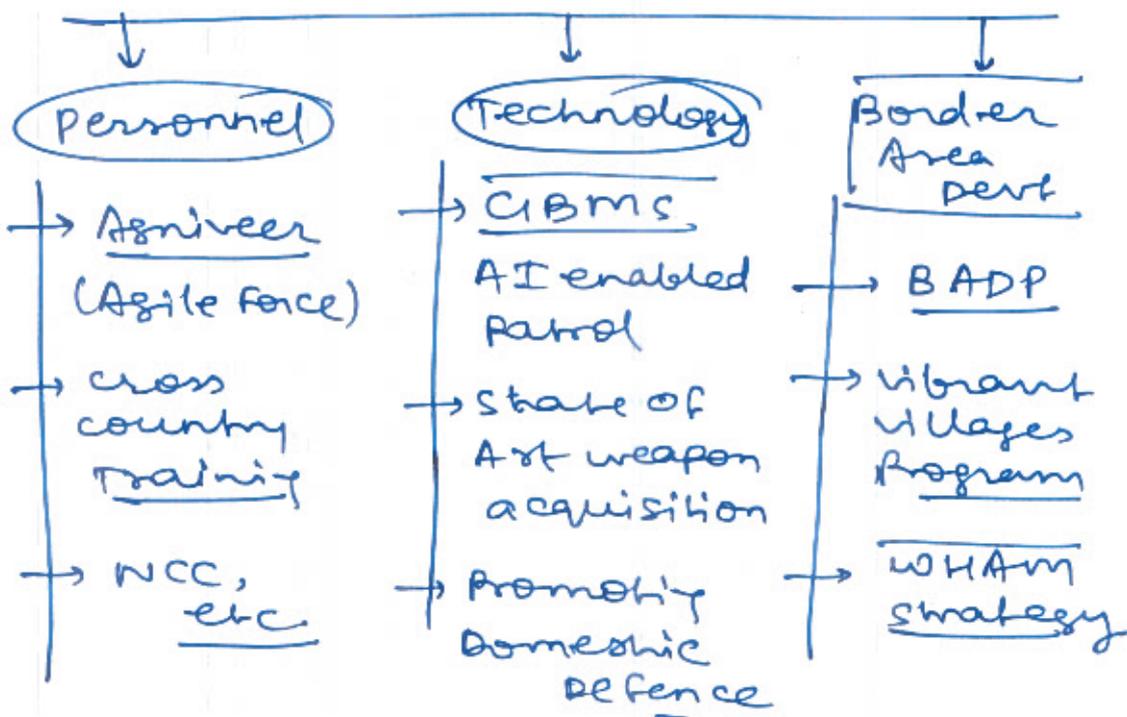
④ Black Economy
(Illegal Cattle Smuggling)

⑤ Protecting Critical Infra & tech.
nuclear plants, OTEC, etc.
(Energy security)

⑥ Coastal Economy
(over 25% Population)

⑦ Reducing youth radicalization
and alienation.

Shekhar committee (3 Front Plan)

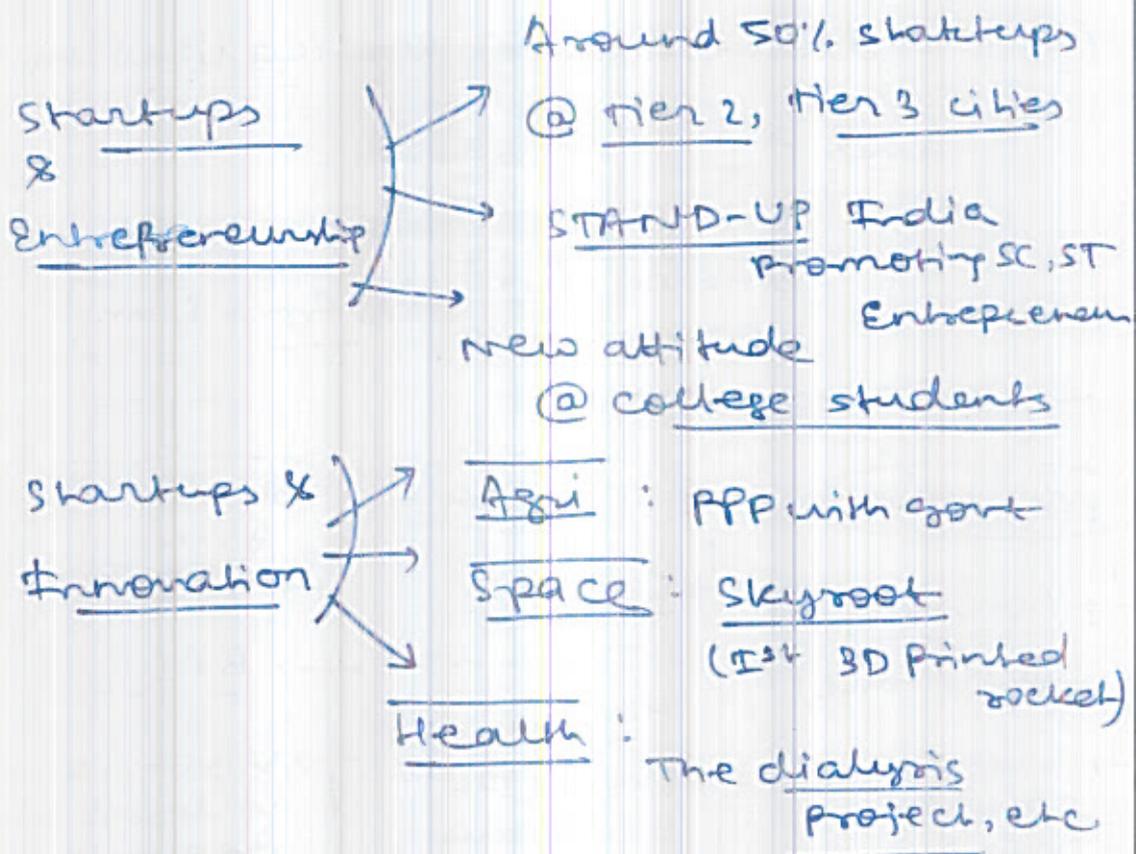


Thus, improving Border security is key to internal security.

11. जबकि भारत में स्टार्टअप्स ने अर्थव्यवस्था में उद्यमशीलता और नवाचार को बढ़ावा देने में उल्लेखनीय सफलता हासिल की है, भारत में स्टार्टअप्स की स्थिरता को चुनौती देने वाले कुछ संवनात्मक मुद्दे हैं। स्टार्टअप्स के सामने आने वाली इन चुनौतियों पर प्रकाश डालें और समस्याओं के व्यावहारिक समाधान सुझाएं। (15 अंक, 250 शब्द)

While startups in India have achieved notable success in fostering entrepreneurship and innovation in the economy, there are certain structural issues challenging the sustainability of startups in India. Elucidate upon these challenges faced by startups and recommend practical solutions to the problems. (15 marks, 250 words)

India now has world's 3rd largest network of unicorns (M&IT) which shows progress in this regards.



Thus, startups have led to overall contribution to Economy, along with Employment generation.

Structural Issues \Rightarrow Hurting sustainability

① Scalability

\hookrightarrow capability issues in expansion due to cost, etc.

② Lack of trained workforce

India Skill Report: \sim 50.3%

Graduates only are employable

③ Infrastructural bottlenecks

Ex: Erratic power supply

Lack of multi-modal Infra

④ Compliance & Regulatory labyrinth

Ex: more permissions lead. to

start business than own gun

(E. Survey 2020)

⑤ Policy uncertainty

Ex: Angel tax controversy

⑥ Financial Irregularities

Ex: BYJU'S misappropriation &

mismanagemt

Required Interventions :

- ① Intra boost
 - ↳ Crati shakti,
DISCOM Reforms,
etc.
- ② Easier compliance
 - ↳ minimal paperwork,
Single window clearance
- ③ Policy Certainty
 - Recommended by Ahluwalia's
Committee
 - > give predictable policy responses
- ④ Incentives
 - ↳ to promote more jobs
 - (Ex: Employment
linked
Incentive)
- ⑤ Institutional support
 - Ex): Atal
tinkering
labs @ colleges; respective
hackathons
etc.

India's vision of Viksit Bharat

by 2047 strongly hinges upon our
Startup Powers.

12. भारतीय रेलवे के बुनियादी ढांचे के आधुनिकीकरण में सार्वजनिक-निजी भागीदारी की प्रभावशीलता का आलोचनात्मक मूल्यांकन कीजिए। सुरक्षा क्षेत्रक को रेलवे के लिए प्रमुख चुनौतियों में से एक मानते हुए, भारतीय रेलवे के समग्र सुरक्षा मापदंडों में सुधार के लिए क्या उपाय किए जा सकते हैं? (15 अंक, 250 शब्द)

Critically evaluate the effectiveness of public-private partnerships in the modernization of railway infrastructure in India. Considering safety as one of the major challenges for railways, what measures can be taken to improve the overall safety parameters of Indian Railways?

(15 marks, 250 words)

India is facing a duality of Railway development: Rise in networks but fall in quality & more accidents.

Effectiveness of PPP

Hits

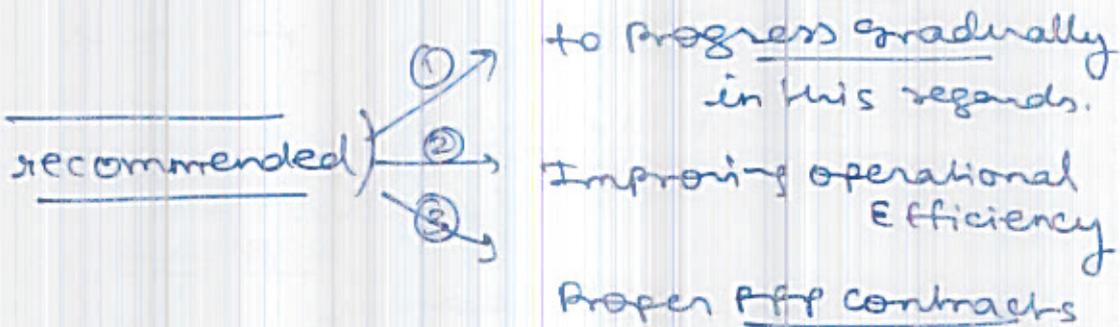
- ① Cost Efficiency by private partners.
- ② Better technology -
(world class tech.)
Digitization
- ③ Professional behavior
of staff
(↓ in corruption)
- ④ state of 1st Infra
(Pani Kamlapati, Vidisha)
station

Misses

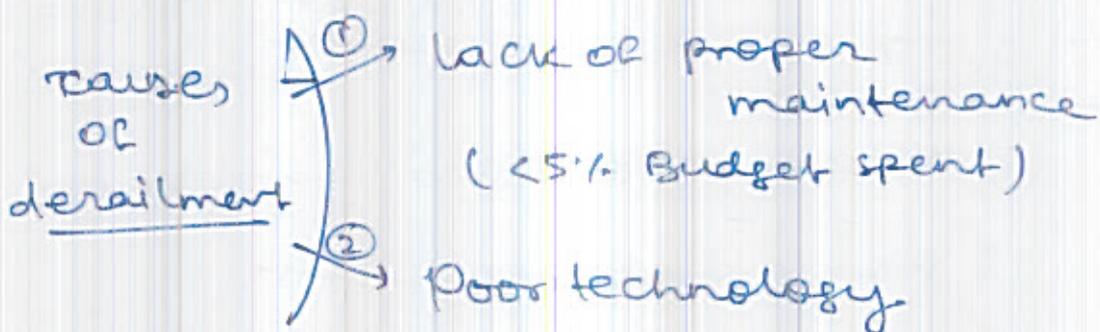
- ① Quality of services has declined
& poor maintenance due to
issues in PPP contract.

- ② Rise in Prices due to low regulation. (Unaffordable)
- ③ Poor pay condition of private Staff (Exploitation)
- ④ Poor maintenance Post contract
- ⑤ Poor Contract enforcement
due to poor monitoring & Post Project assessment

Bibek Debroy Committee has



II. Railway Safety Issue



③ Same route for passenger +
freight

④ Intentional
(LWE; etc.)

Anil Kakodkar committee

recommendations:

- ① 100% Swift ICF → LHB
coaches
- ② Construct Railway under &
over passes (Setu Bharatam
Scheme)
- ③ Dedicated freight corridors
- ④ ↑se Budget for overhaul &
maintenance

Govt has developed KAVACH
system: state of Art technology.

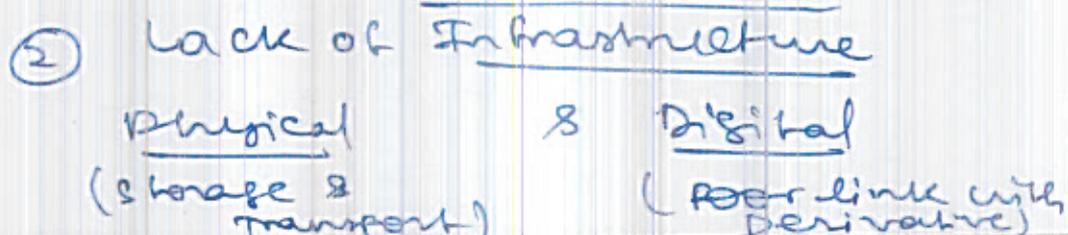
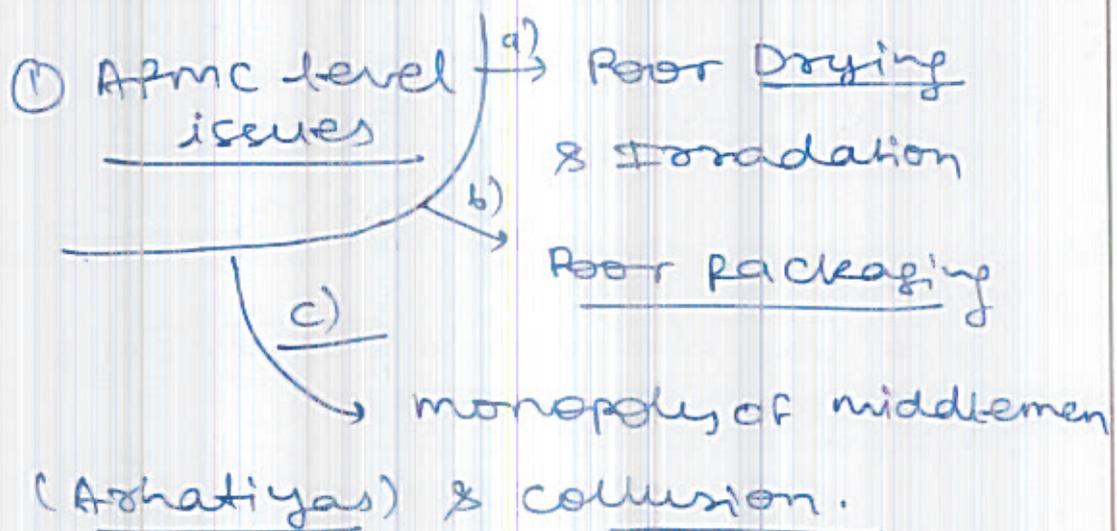
Quality of Service Delivery along
with safety should be our
motto for Indian Railways.

13. "अगर उपज समय पर हमारी थाली तक पहुंच जाए तो खेती लाभकारी हो जाती है।" इस संदर्भ में, भारत में कृषि विपणन और परिवहन क्षेत्र को समक्ष आने वाले अपस्ट्रीम और डाउनस्ट्रीम मुद्दों पर प्रकाश डालिए। इस क्षेत्र की समग्र दक्षता में सुधार के लिए कौन-सी पहलें प्रारम्भ की जा सकती हैं? (15 अंक, 250 शब्द)

"Farming becomes remunerative if the produce reaches our plates in time". In this context, highlight the upstream and downstream issues faced by the agriculture marketing and transport sector in India. What initiatives can be undertaken to improve the overall efficiency of the sector? (15 marks, 250 words)

Dalwai Committee on DFI highlighted the plight of poor remuneration in Agri. As per SAS (Situational Assessment Survey); avg. household in farm has debt of ₹ 74,000 today.

Issues @ marketing



- ③ Poor awareness about price movements and lack of Agri-Extension services

Issues @ Transport

- ① Roads : Lack of all season metalled roads
- ② Poor mix
Roads have exorbitant share : non-optimal
(Railways are most efficient)
- ③ High cost to hire tractors by small farmers.

Govt Initiatives

Marketing

- ① e-NAM
Digital intervention
- ② Organic Promotion
- CNPOP / APEDA
certification / institute

Transport

- ① Krishi Rail
Rail Fibre with SPT. Seasonal MER
- ② Krishi Udan
For HVC, Horticulture
- ③ AIDF (Agri. Infra Devt Fund)

Initiatives Required

① Promoting FPOs

Budget 23-24: Promoting 10,000
FPOs ⇒ collectivization ⇒ Better bargaining

② Public Invest. @ Agri Infra

Storage
Coldstorage
mission.

Transport
PM - Gram Sadak
Yojana

③ Promoting FFP, Startups

↳ helps farmers increase
longevity

↳ Technology: Ex: Irradiation
(to improve shelf life)

④ Promoting Food Processing

to add value & better
returns.

Dalwai committee to double

Farm Income stressed heavily

upon improving Agri Transport

& marketing to improve the

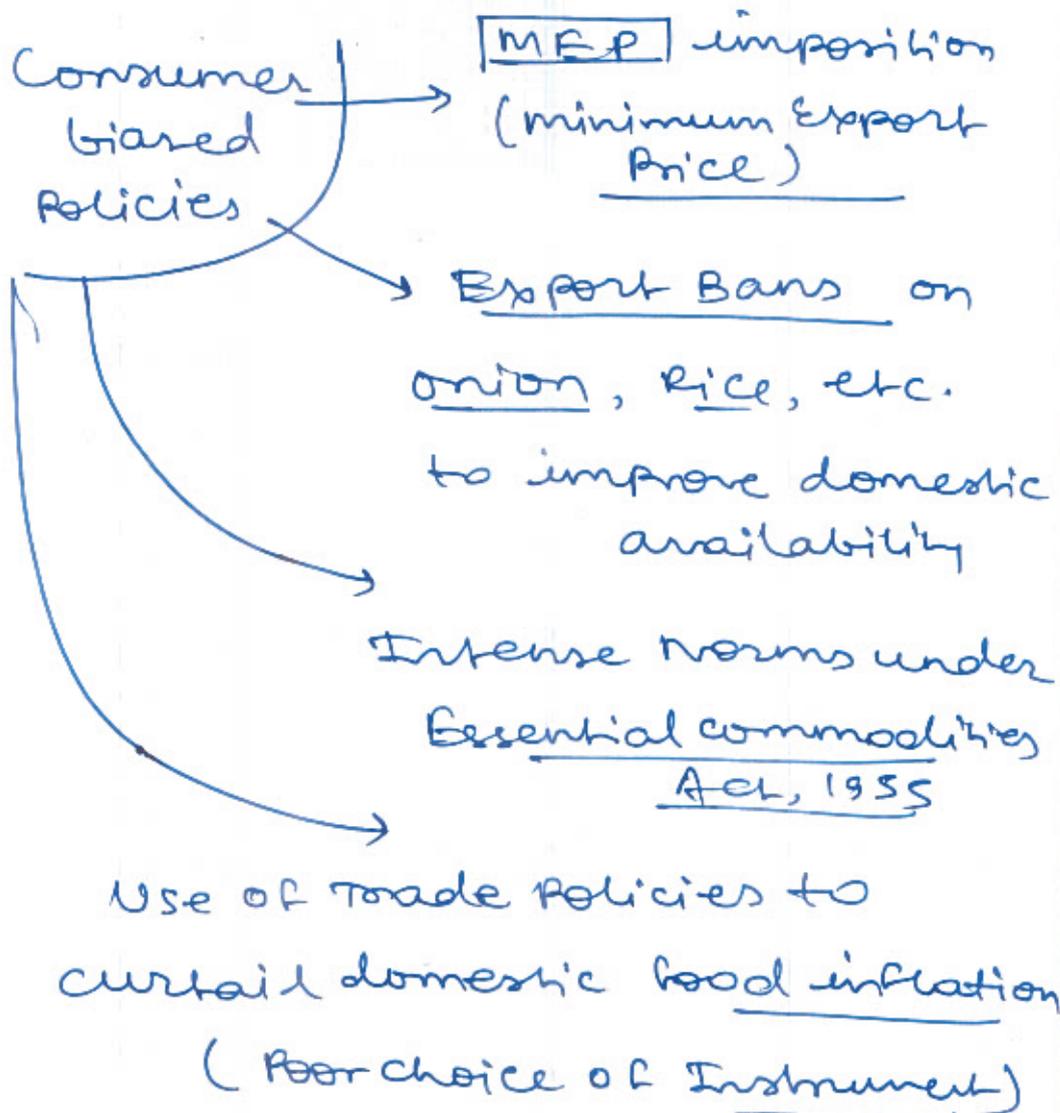
Farming remuneration overall.

14. भारत की कृषि संबंधी निर्यात-आयात की नीतियां किसानों के बजाय उपभोक्ताओं की ओर अधिक झुकी हुई हैं। दिए गए कथन के आलोक में, किसानों पर आयात और निर्यात नीतियों के प्रभावों का आलोचनात्मक विश्लेषण कीजिए। किसानों को आयात-निर्यात संबंधी मूल्यों के दहशत से बचाने के लिए क्या उपाय किए जा सकते हैं? (15 अंक, 250 शब्द)

India's agriculture export-import policies are tilted more towards the consumers rather than the farmers. In light of the given statement, critically analyze the impact of import and export policies on farmers. What measures can be undertaken to shield farmers from import-export price shocks?

(15 marks, 250 words)

Recently, Ashok Gulati raised the issue of 'consumer biased' policy of Agri; which was causing losses to producers.



Impact of Such Policies

→ Farmers ① Poor Price Realization

② Debt Trap (as high input cost)

③ Poor incentive to grow HVCs
(High value crops)

④ Poor Agri. Diversification.

→ India as a Exporter ① very hurts our image as a reliable partner.

② may poorly impact our trade ties with UAE, etc. (Middle East is a major

③ Long Run : Failure of Agri-Export Policy, 2018 Farmer Importer)

→ Miscellaneous

① curtailing free markets

② wrong choice of instruments

Measures Required :

- ① Creating suitable Storage Capabilities domestically.
- ② This would allow us to release shortage food items & curb farm inflation.
- ③ Public Private P'ship
 - ↳ Cold storage devt.
 - ↳ R&D grants to improve capacity of godowns.
- ④ AI : to predict shortage, global & local price movements etc

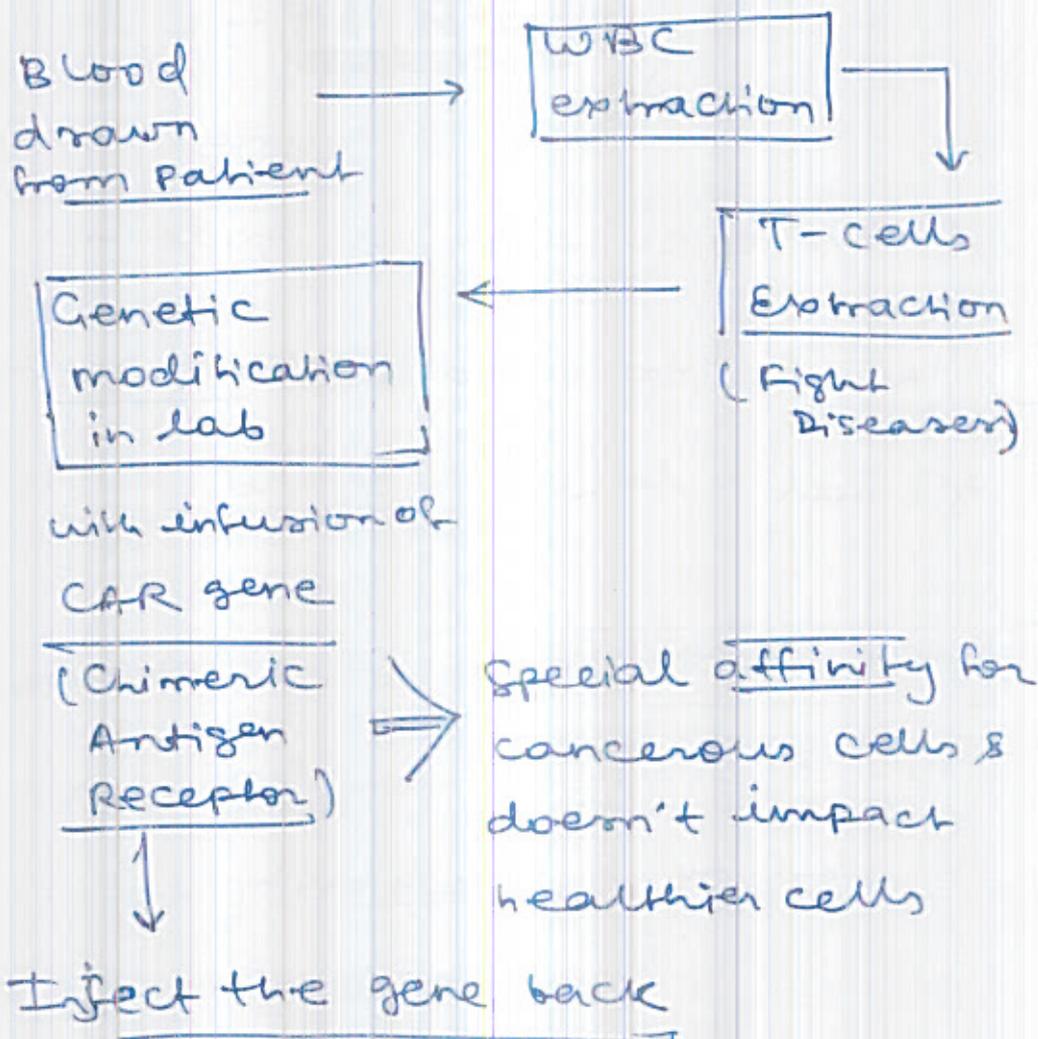
Agri. Export Policy, 2018 stresses greatly upon providing Stability & Credibility to Agri Exports of India.

15. चिकित्सा विज्ञान में भारत की उन्नति, भारत की पहली कैंसर रोगी के इलाज के लिए CAR-T सेल थेरेपी का उपयोग करने में सफलता में परिलक्षित होती है। कैंसर और संबंधित बीमारियों के इलाज में CAR-T सेल थेरेपी के कामकाज और प्रभावशीलता पर चर्चा कीजिए। (15 अंक, 250 शब्द)

India's advancement in medical science is reflected in India's success in using CAR-T cell therapy to treat the first cancer patient. Discuss the working and effectiveness of CAR-T cell therapy in treating cancer and related diseases. (15 marks, 250 words)

Recently, President of India lauded India's progress with CAR-T therapy which is a milestone in the regards of medical science.

Working of CAR-T

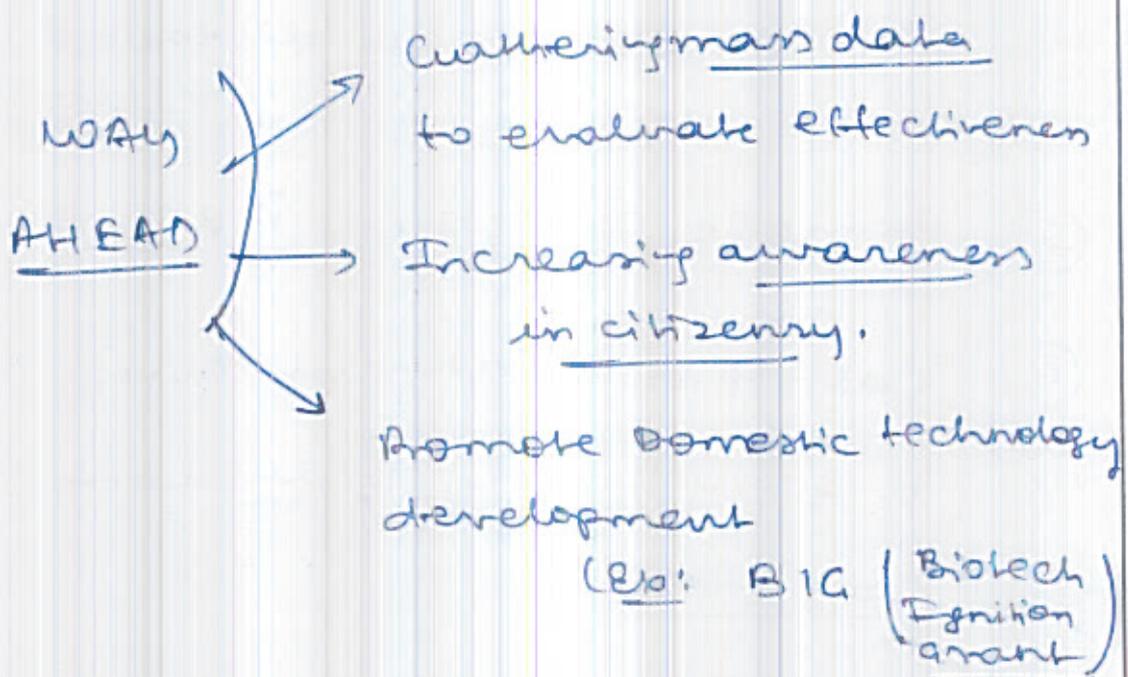


Effectiveness / Promises

- ① Less Painful experience than Chemotherapy.
- ② Lesser side effects like Hair loss, etc. that happens with chemo.
- ③ one time procedure : no need of repeated process.
- ④ Higher Effectiveness as it specifically treats diseased cells.
- ⑤ Promote Indigenous R & D.
- ⑥ Cost per treatment can be significantly reduced in long run.
- ⑦ To complement other innovations like CRISPR-CAS9, etc.

Challenges

- ① Possible Cytokine Storm :
Reaction by Immune system.
- ② very high cost ; unaffordable
- ③ Lack of Awareness ;
public trust
- ④ Lack of Data with respect to
mass clinical trials.



CAR-T would surely help us
realize our goal of SDG-3.

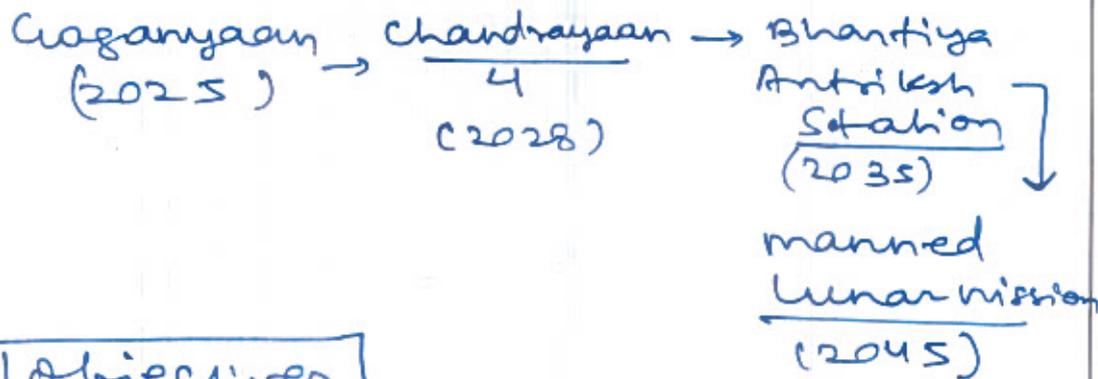
16. भारत के गगनयान मिशन और भारतीय अंतरिक्ष स्टेशन का मुख्य उद्देश्य क्या है? किन अन्य देशों ने अंतरिक्ष में अपने मानवयुक्त मिशनों को सफलतापूर्वक लॉन्च किया है? गगनयान मिशन और उससे संबंधित भारतीय अंतरिक्ष स्टेशन के सफल क्रियान्वयन के लिए कौन सी प्रमुख प्रौद्योगिकी की आवश्यकता है? साथ ही, इन मिशनों से जुड़ी चुनौतियों को भी स्पष्ट कीजिए। (15 अंक, 250 शब्द)

What is the main objective of India's Gaganyaan Mission and Bharatiya Antariksha Station? Which other countries have successfully launched their manned missions into space? What major technologies are required for the successful execution of the Gaganyaan Mission and related Bharatiya Antariksha Station? Also, elucidates the challenges associated with these missions.

(15 marks, 250 words)

ISRO has time and again proved its capabilities and this time, it is on a much larger scale.

ISRO plans:



Objectives

- ① Putting India on global pedestal wrt space capabilities.
- ② Enhancing Private sector participation
- ③ Boosting Space R&D.
- ④ Global collaboration (NASA, Roscosmos)

Other successful nations (manned mission)

- ① USA (NASA)
- ② Russia (ROSCOSMOS)
- ③ China ④ JAXA

major technologies Required :

- ① Augmented Capability of launch vehicle
 - ✓ currently, LVM-3 can carry only ~ 8 tonnes to LEO (low Earth orbit)
 - ✓ Also making it human Rated.
- ② SPADEX : For space Docking
- ③ ECLSS : Environment controlled life support system
- ④ CREW-PAD Abort testing.

⑤ Re-Entry technology

(ISRO should explore P'ships
with companies like SPACE-X
↓
(Falcon Rockets)

Challenges associated :

- ① Astronaut safety
(Ex: Sunita Williams
stuck)
- ② Developing suitable Thrusters
and launch vehicle
Ex: NASA's Orion
- ③ Lack of Experience
(India: not part of ISS)
- ④ Technological backwardness
- ⑤ Astronaut Training dependence
on USA, Russia

BAS & Chang'e mission

are expected to boost India's
Space Economy to ~ \$ 100 Bn. by
2030 as per Symantec Report.

17. "भारत को अपतटीय पवन ऊर्जा के क्षेत्र में उच्च क्षमता है, लेकिन कार्यान्वयन अभी भी कम है।" अपतटीय पवन ऊर्जा के दोहन में बाधा डालने वाली चुनौतियों पर चर्चा करें और संभावित समाधान सुझाएँ। (15 अंक, 250 शब्द)

"India's offshore wind energy has high potential but remains low on implementation". Discuss the challenges impeding the harnessing of offshore wind energy and suggest possible solutions.

(15 marks, 250 words)

As per MNRE, India has over 120 GW potential of offshore wind energy; but surely we haven't tapped even 10% by now.

Potential Benefits

- ① Efficiency: Offshore → Stronger winds
↓
Greater Energy
- ② Lesser number of wind mills required
- ③ Less Environmental clearances & obstructions
- ④ Less conflict with diversion of land away from Agri, Fisheries etc.
- ⑤ Less interference with natural mountains, etc.

⑥ Long coastline : over 7516 km

⑦ Strategic Advantage

↳ India can attach coastal radars.

Challenges Impending :

① High cost of installation

② High cost + Unease of maintenance.

③ coastal security threats
(Chinese aggression, Piracy, etc)

④ Tsunami threat

⑤ costly to lay and maintain underwater cables.

⑥ marine Pollution threat
↳ Biodiversity, etc.

India's vision:

Offshore wind Energy Policy

↳ to tap 30GW by 2030

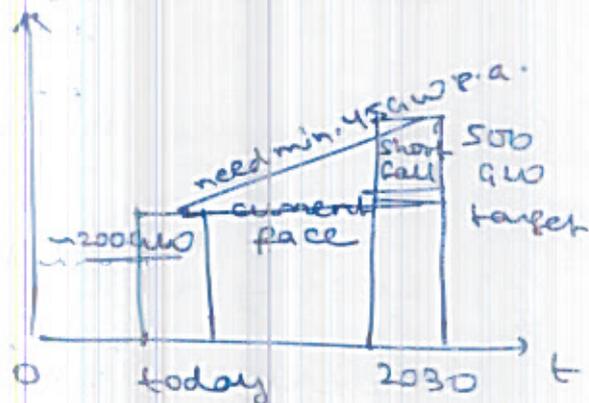
measures Required :

① Financial Subsidy by govt
(on lines of solar).

② Security by naval forces

③ Team of Expert Repair & maintenance experts

④ technology collaboration
with west.



Thus,

Offshore wind Energy can

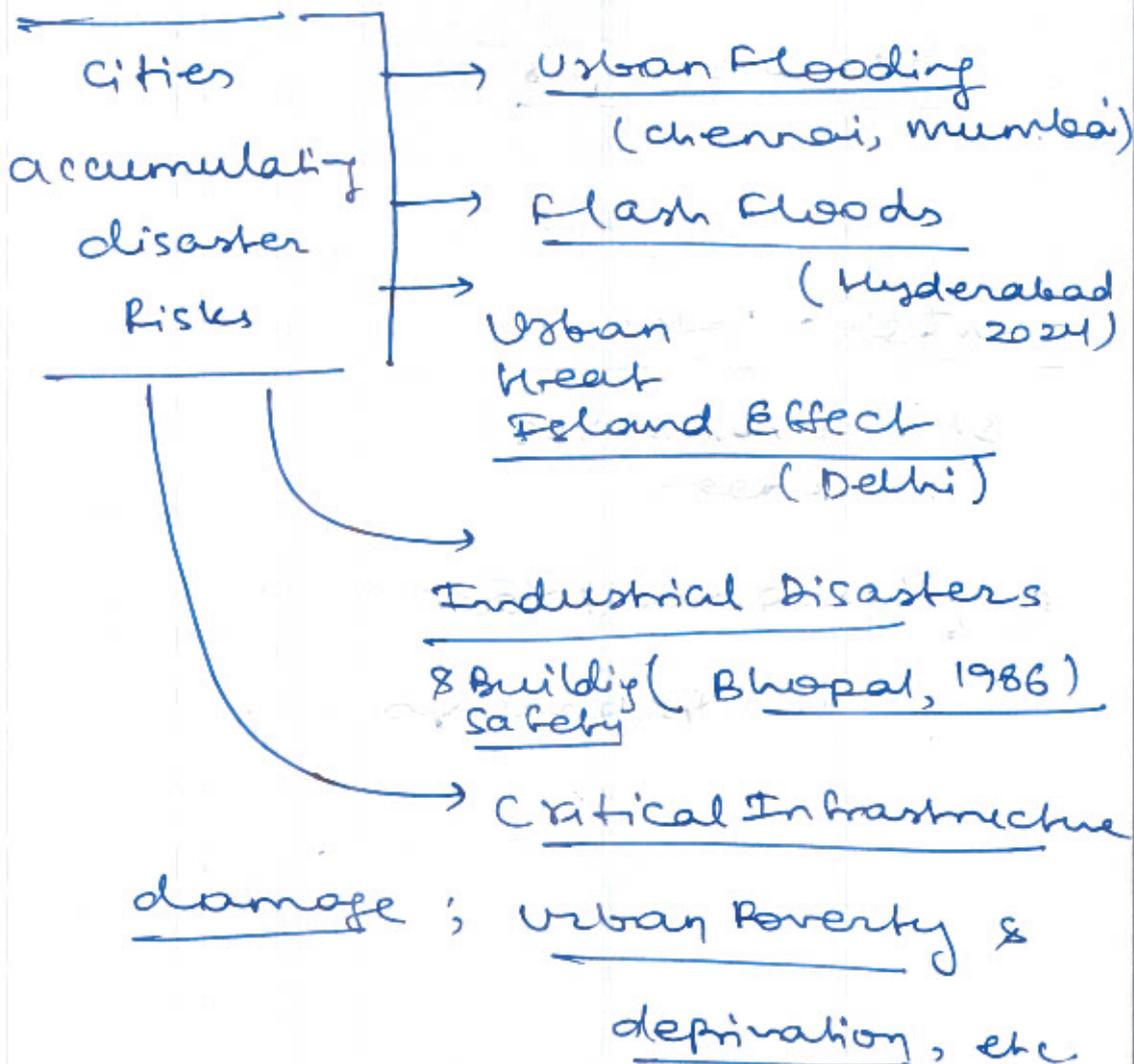
Significantly contribute to India's

net zero and L1FF goals.

18. विकास के केंद्र होने के अलावा, शहरी क्षेत्र आपदा जोखिमों के संचय के केंद्र भी हैं। मेगा-शहरी समूहों (Mega urban cities) में आपदा प्रबंधन विशेष रूप से जटिल क्यों है? शहरी क्षेत्रों में आपदा प्रबंधन और जोखिम न्यूनीकरण की समस्याओं को दूर करने के लिए क्या उपाय किए जा सकते हैं? (15 अंक, 250 शब्द)

In addition to being the centres of growth, urban areas are also centres of accumulating disaster risks. Why is disaster management particularly complex in mega-urban cities? What measures can be undertaken to address the problems of disaster management and risk reduction in urban areas? (15 marks, 250 words)

Cities in India contribute over 2/3rd to GDP; thereby acting as centres of Growth; but are rapidly become Disaster Hotspots.



Complexity of disaster mgmt. @ urban centres

- ① Sabotaged Blue-Green Infra for devt. (Ex: Lakes of Bangalore)
 - ② Unsustainable expansion and lack of town planning
 - ③ Lack of dedicated agencies for urban issues.
 - ④ Heavy Population Pressure and overwhelmed Infra.
 - ⑤ Lack of coordination among agencies ⇒ Poor accountability
(Ex: RAV'S IAS event)
- Way Ahead in this regards
-
- ① Chinese concept of Sponge Cities
(Dedicated Blue Green Infra to mimic Natural Ecosystems)

② Planned Urbanization
(Ex: Chandigarh)

③ Regular maintenance of
sewers; constructing new
storm drains, etc.

④ Dedicated SOPs, etc.

Measures Taken

① 2024 NDMA Amend. Bill
↳ Dedicated body for
urban disasters.

② UP Govt ⇒ district wise
Heat wave Action Plan

③ 1st Urban Flooding Control
Program for Chennai,
more to come

India must adhere to SENDAI

Principles and augment our

National Disaster Policy, 2016 in

this regards.

19. भारत को आंतरिक सुरक्षा के लिए सोशल मीडिया और नेटवर्किंग साइट्स द्वारा उत्पन्न खतरों पर चर्चा कीजिए। सूचना और प्रौद्योगिकी नियम, 2021 के तहत तथ्य-जांच इकाइयाँ (FCU) सोशल मीडिया पर फर्जी खबरों के प्रसार के समग्र खतरे को नियंत्रित करने में किस प्रकार मदद करती हैं? सरकार द्वारा तथ्य-जांच इकाइयाँ (फैक्ट चेक यूनिट) स्थापित करने के बारे में प्रेस प्रसारकों और डिजिटल मीडिया प्रतिभागियों की क्या-क्या चिंताएँ हैं? (15 अंक, 250 शब्द)

Discuss the threats posed by social media and networking sites to the internal security of India. How do the fact-check units (FCUs) under Information and Technology Rules, 2021 help in controlling the overall menace of the spread of fake news on social media? What are the concerns of press broadcasters and digital media participants about the Government establishing fact-check units? (15 marks, 250 words)

Social media sites have significantly enhanced India's security concerns as per latest ORF Report.

Threats Posed :

① Inflammatory posts

Ex: Beef & cow
vigilantism

② Echo chambers

(for fake news
Ex: CLP on ₹2000
note)

③ Lack of social media accountability

('Intermediary status')

④ Lack of traceability &

Anonymity

⑤ Use by radical outfits :

- ✓ (ISIS magazine, Radicalizing Speeches,
- ✓ Recruitment via Telegram,
- ✓ Training module via video games
etc.)

IT Rules, 2021 ⇒ FCUs ↓

PIB designated
by govt

(Impact) :

- ① To fact check any disputed media/Info using official resources.
- ② Analyse repercussions upon National security & integrity.
- ③ Direct social media websites/ platform to remove any unsuitable or provocative content.
- ④ Uphold accountability of Platforms as per social media Ethics (IT Rules, 2023)

Concerns raised

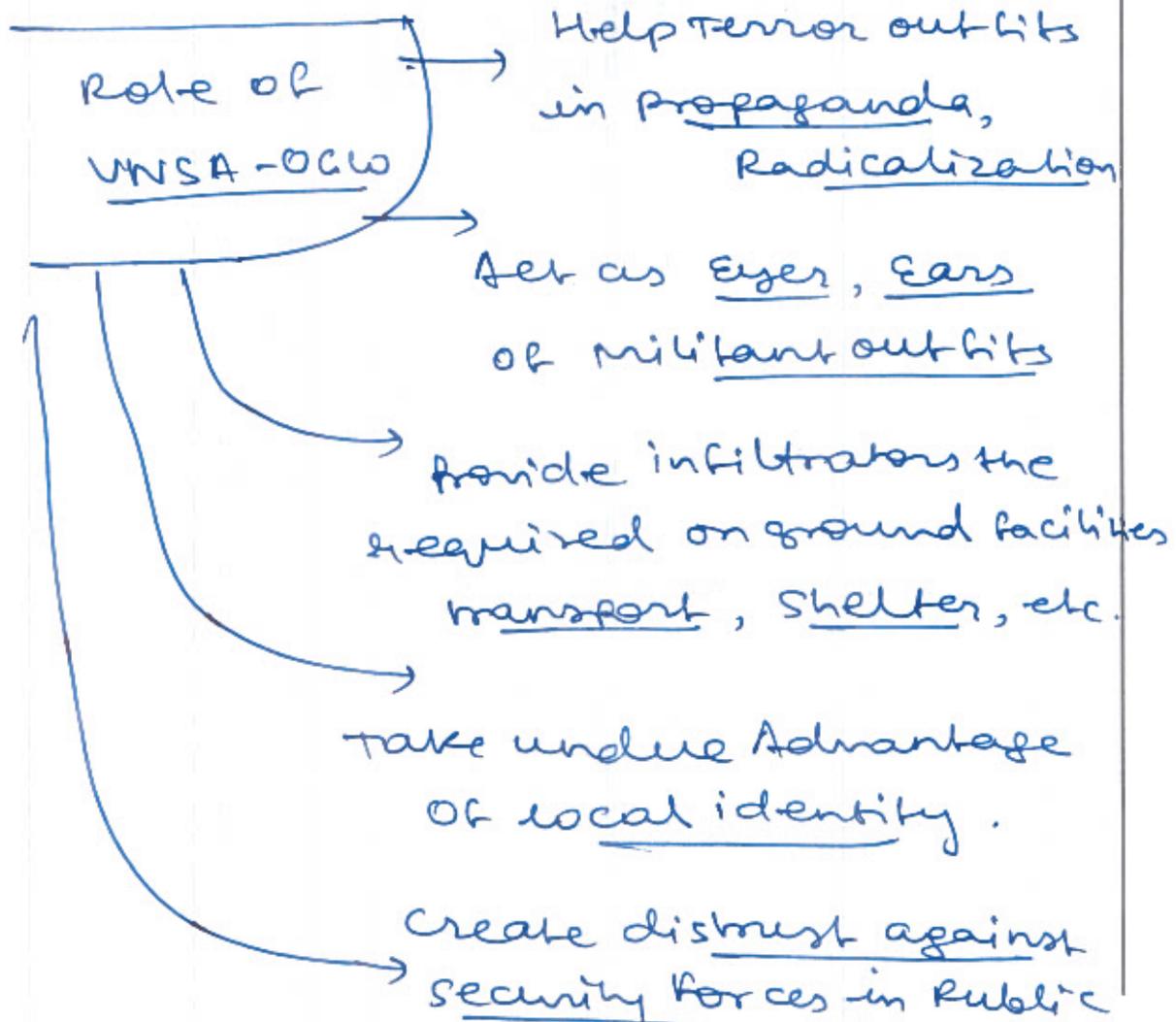
- ① curtailing freedom of speech as per Article 19.
- ② Lack of Independent nature of FCUs like PIB.
- ③ Court is both jury & Judge (alongwith petitioner).
- ④ curtails Agency / Freedom of social media platforms.
- ⑤ Opacity of procedure followed by govt agencies to link a media as fake / opinionated.

In Kunal Kamra vs UOI, Bombay HC delivered a split verdict and is sub-judice now. But it is pertinent to balance Freedom of speech with reasonable restriction.

20. कश्मीर घाटी में हिंसा भड़काने में हिंसक गैर-राज्य अभिकर्ताओं (वीएनएसए-अपवसमदज Non-state actors) की भूमिका पर प्रकाश डालते हुए, चर्चा कीजिए कि सशस्त्र बलों द्वारा "ऑपरेशन सद्भावना" स्थानीय युवाओं की आकांक्षाओं को संबोधित करके वीएनएसए-ओजीडब्ल्यू (ओवर ग्राउंड वर्कर्स) गठजोड़ से कैसे निपट सकता है। (15 अंक, 250 शब्द)

By highlighting the role of Violent Non-State Actors (VNSAs) in inflicting violence in Kashmir valley, discuss how "OPERATION SADBHAVNA" by armed forces can tackle the VNSA-OGW (Over Ground Workers) nexus by addressing the aspirations of local youth. (15 marks, 250 words)

As per MHA's recent report;
Insurgency in Kashmir valley
has declined substantially
due to mix of hard & soft
measures in the regards.



Unfulfilled aspiration of Kashmiri youth

① Frequent Internet Shutdowns

(India: No.1 globally)

② Heavy personnel deployment
& (restricted Art-19)

③ Backwardness

due to lack of integration with mainland India.

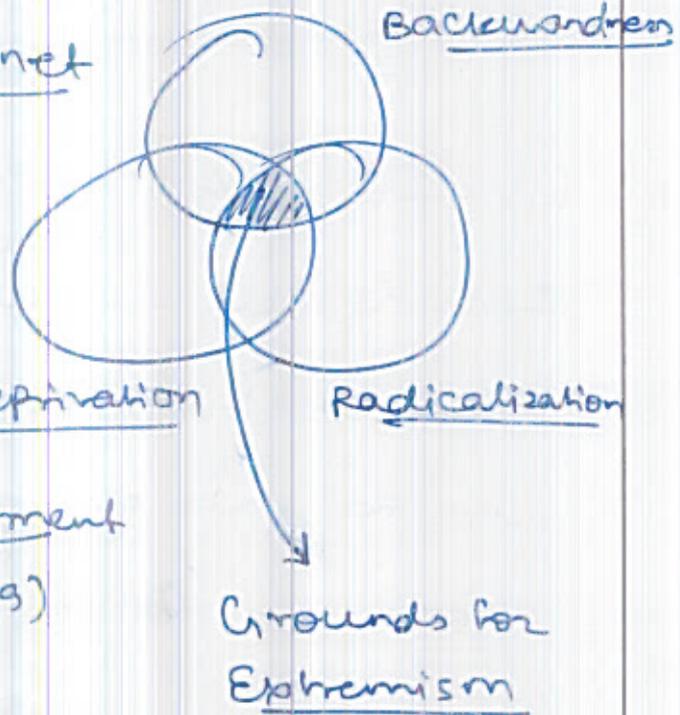
④ Security challenges →

tourism and local business
↓
hunt

⑤ Lack of opportunities for youth
↳ Easily radicalized.

⑥ mishrust (AFSPA)

⑦ Perceived threat to Kashmiri Identity.

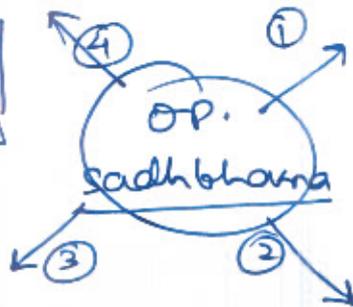


Operation Sadhbharna

↳ Army opens Residential schools for Kashmiri children.

Youth connect

Awaaz ki Awaaz



MISSION YOUTH

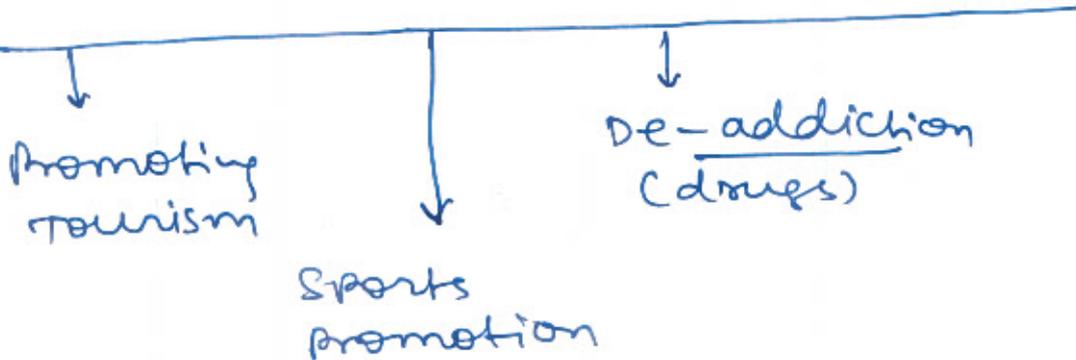
Parvaaz: CSE coaching

Sher-i-Kashmir Skill develop. of youth.

Reducing Brute Force strategy (AFSPA)

WHAM (winning hearts & minds)

Way Ahead



Thus, it is high time that we make Kashmir valley as the 'Heaven on Earth' again.

NEXT IAS

Space for Rough Work

NEXT IAS

Space for Rough Work

NEXT IAS

IMPORTANT INSTRUCTIONS

CANDIDATES SHOULD READ THE UNDERMENTIONED INSTRUCTIONS CAREFULLY. VIOLATION OF ANY OF THE INSTRUCTIONS MAY LEAD TO PENALTY.

DONT'S

1. Do not write your name or registration no. anywhere inside this Question-cum-Answer Booklet.
2. Do not write anything other than the actual answers to the questions anywhere inside your QCA Booklet.
3. Do not tear off any pages from your QCA Booklet, if you find any page missing do not fail to notify the supervisor/invigilator.
4. Do not leave behind your QCA Booklet on your table unattended, it should be handed over to the invigilator after conclusion of the exam.

DO'S

1. Read the Instructions on the cover page and strictly follow them.
2. Write your registration number and other particulars, in the space provided on the cover of QCA Booklet.
3. Write legibly and neatly. Do not write in bad/illegible handwritings.
4. For rough notes or calculation, the last two blank pages of this booklet should be used. The rough notes should be crossed through afterwards.
5. If you wish to cancel any work, draw your pen through it or write "Cancelled" across it, otherwise it may be evaluated.
6. Handover your QCA Booklet personally to the invigilator before leaving the examination hall.

SPECIAL REQUEST FOR CANDIDATE AVAILING ONLINE FACILITY

1. Scan the QCA booklet properly. We suggest the uses of the app CAM scanner (Scan QR code in page 2) based on our previous experiences.
2. Please scan the QCA booklet in ample light. Copies scanned under moderate light can hamper evaluation quality.
3. Any page/pdf having shadow needs to be rescanned. Please make sure that the pdf that you upload is as clean as possible.
4. **Candidates not using the QCA booklet** must mention their details on the front page. And leave the next page blank for the macro comments. It must be understood that the answer should start from Page no. 3 in of the scanned pdf.
5. Candidates not using the QCA booklet must follow the sequence of the answer as per the question paper.
6. Please check the sequence of the answer and total number of pages in the scanned version. Make sure it is in consonance with the physical version of the same.

NEXT IAS

महत्वपूर्ण निर्देश

अभ्यर्थियों को निम्नलिखित निर्देशों को ध्यानपूर्वक पढ़ना चाहिए। किसी भी निर्देश का उल्लंघन करने पर दण्डित किया जा सकता है।

क्या न करें-

1. इस प्रश्न-सह-उत्तर पुस्तिका के भीतर कहीं भी अपना नाम या पंजीकरण संख्या न लिखें।
2. अपनी QCA पुस्तिका में कहीं भी प्रश्नों के वास्तविक उत्तरों के अलावा कुछ भी न लिखें।
3. अपनी QCA पुस्तिका से कोई भी पृष्ठ न फाड़ें, यदि आपको कोई पृष्ठ गायब लगे, तो पर्यवेक्षक/निरीक्षक को सूचित करना न भूलें।
4. अपनी QCA पुस्तिका को अपनी टेबल पर न छोड़ें, परीक्षा समाप्त होने के पश्चात इसे निरीक्षक को सौंप देना चाहिए।

क्या करें-

1. कवर पृष्ठ पर दिए गए निर्देशों को ध्यान पूर्वक पढ़ें और उनका सख्ती से पालन करें।
2. QCA पुस्तिका के कवर पृष्ठ पर दिए गए स्थान पर अपना पंजीकरण नंबर और अन्य विवरण लिखें।
3. स्पष्ट और पठनीय तरीके से लिखें। खराब/अपठनीय लिखावट में न लिखें।
4. रफ नोट्स या गणना के लिए, इस पुस्तिका के अंतिम दो खाली पृष्ठों का उपयोग किया जाना चाहिए। रफ नोट्स को बाद में क्रॉस कर देना चाहिए।
5. यदि आप किसी कार्य को रद्द करना चाहते हैं, तो उस पर अपना पेन चलाएं या उस पर "रद्द" लिखें, अन्यथा उसका मूल्यांकन किया जा सकता है।
6. परीक्षा हॉल छोड़ने से पहले अपनी QCA पुस्तिका व्यक्तिगत रूप से निरीक्षक को सौंप दें।

ऑनलाइन सुविधा का लाभ उठाने वाले अभ्यर्थियों के लिए विशेष अनुरोध

1. QCA पुस्तिका को ठीक से स्कैन करें। हम चाहेंगे कि आप स्कैनिंग के लिए कैमस्कैनर ऐप (CAM SCANNER) का प्रयोग करें। (यह कोई प्रमोशन नहीं है)।
2. कृपया QCA पुस्तिका को पर्याप्त रोशनी में स्कैन करें। कम रोशनी में स्कैन की गई पुस्तिकाएं, उनके मूल्यांकन की गुणवत्ता को बाधित कर सकती हैं।
3. स्कैन के दौरान छाया वाले किसी भी पृष्ठ/पीडीएफ को फिर से स्कैन किया जाना चाहिए। कृपया सुनिश्चित करें कि आपके द्वारा अपलोड की गई पीडीएफ यथा संभव स्पष्ट हो ।
4. QCA पुस्तिका का उपयोग नहीं करने वाले उम्मीदवारों को अपना विवरण पहले पृष्ठ पर देना चाहिए और मैक्रो टिप्पणियों के लिए अगला पृष्ठ खाली छोड़ दें। यह समझना चाहिए कि उत्तर स्कैन की गई पीडीएफ में पृष्ठ नंबर 3 से शुरू होना चाहिए।
5. QCA पुस्तिका का उपयोग नहीं करने वाले उम्मीदवारों को प्रश्नपत्र के अनुसार उत्तर के अनुक्रम का पालन करना चाहिए।
6. कृपया स्कैन किए गए संस्करण में उत्तर के अनुक्रम और कुल पृष्ठों की संख्या की जाँच करें। सुनिश्चित करें कि यह उसी के भौतिक संस्करण के अनुरूप है।

