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GENERAL STUDIES (TEST CODE : 1840)

Name of Candidate	Divyanshi Singla			
Medium Eng./Hindi	Giglish	Registration Number	1365836	
Center	Delhi	Date	28 Aug 12022	

INDEX TABLE				
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			
11	15			
12	15	1		
13	15			
14	15			
15	15			
16	15			
17	15			
18	15			
19	15			
20	15			

Total Marks Obtained:

Remarks:

INSTRUCTIONS

- Do furnish the appropriate details in the answer sheet (viz. Name, Registration Number and Test Code). उत्तर पुस्तिका में सूचनाएं भरना आवश्यक है (नाम, प्रश्न-पत्र कोड, विद्यार्थी क्रमांक आदि)।
- There are TWENTY questions printed in ENGLISH & HINDI इसमें बीस प्रश्न हैं अंग्रेजी और हिन्दी में छपे हैं।
- All questions are compulsory. सभी प्रश्न अनिवार्य हैं।
- The number of marks carried by a question/part is indicated against it.
 प्रत्येक प्रश्न / भाग के अंक उसके सामने दिए गए हैं।
- 5. Answers must be written in the medium authorized in the Admission Certificate, which must be stated clearly on the cover of this Question-Cum-Answer (QCA) Booklet in the space provided. No marks will be given for answers written in medium other that the authorized one.
 - प्रश्नों के उत्तर उसी माध्यम में लिखे जाने चाहिए जिसका उल्लेख आपके प्रवेश पत्र में किया गया है और उस माध्यम का स्पष्ट उल्लेख प्रश्न-सह-उत्तर (वयूसीए) पुस्तिका के मुख्य पृष्ट पर अकित निर्दिष्ट स्थान पर किया जाना चाहिए। उल्लिखित माध्यम के अतिरिक्त अन्य किसी माध्यम में लिए गए उत्तर पर कोई अंक नहीं मिलेंगे।
- Word limit in questions, if specified, should be adhered to.
 प्रश्नों में शब्द सीमा, जहाँ विनिर्दिष्ट है, का अनुसरण किया जाना चाहिए।
- 7. Any page or portion of the page left blank in the Question-Cum-Answer Booklet must be clearly struck off. उत्तर पुरितका में खाली छोड़ा हुआ पृष्ट या उसके अंश को स्पष्ट रूप से

16-B, 2nd Floor, Above National Trust Building, Bada Bazar Marg, Old Rajinder Nagar, Delhi-110060

Plot No. 857, 1st Floor, Banda Bahadur Marg (Opp Punjab & Sindh Bank), Dr. Mukherjee Nagar Delhi- 110009

EVALUATION INDICATORS

- 1. Contextual Competence
- 2. Content Competence
- 3. Language Competence
- 4. Introduction Competence
- 5. Structure Presentation Competence
- 6. Conclusion Competence

Overall Macro Comments	/ feedback	suggestions on Answer Booklet
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1.

2.

3.

4.

5.

6.

All the Best

Don't write anything this margin (इस जाण में कुछ ना तिस्में)

While fixed-term employment offers an ingenious way to address specific 1. issues faced by both employers and employees, there are also some concerns associated with it. Discuss in the context of India.

(150 words) 10

झालांकि, नियत अवधि का रोजगार (फिक्स्ड टर्म एम्प्लॉयमेंट) नियोक्ताओं और कर्मचारियों दोनों के द्वारा सामना किए जाने थाले विशिष्ट मुद्दों को हल करने का एक सरल तरीका प्रदान करता है, लेकिन इसके साथ कुछ चिंताएं भी जुड़ी हुई हैं। भारत के संदर्भ में चर्चा कीजिए।

employment refers to

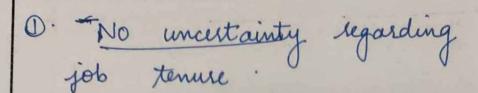
(Addresses Issues of

D. Certain jobs requiring employees

Addresses Issues

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Deneficial for seasonal unemployed (G) - Agri labourers, farmers, etc.

However, certain issues still

semain >

not resolved.

against regular ones : (5) + in terms of social security benefits, wages, etc.

3 lowers productivity as contract is pre-determined.

fixed term employment along with social security is impleative for empowerment of malgine Visit us: www.visitoria.

Page 2 of 50

anything this margin (হুত্ত পাল সঁ ফুড ৰা জিজাঁ)

2. An efficient logistics sector with a focus on warehousing is pivotal to the success of the Bharatmala Pariyojana. Discuss. (150 words) 10 वेयरहाउसिंग पर केंद्रित एक कुशल लॉजिस्टिक्स क्षेत्रक भारतमाला परियोजना की सफलता के लिए महत्वपूर्ण है। विवेचना कीजिए।

Bharatmala Parijojana tends to provide ease of doing business by developing efficient logistics along entire supply chain.

afficient logistics sector required

D. Building of warehouses for storage. Eg - Agri produce and other manufactured consumer goods.

- Decreases cost of doing business
 - and markets.
- 3. Decreases turnaround time at

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the pouts · (India -> 3 days, world Avg. - 24 hrs) ·

- (9) Attracts FDI in multiple sectors
 - eg electronics, renewable energy,

Complements Bhakatmala
Paliyojana ->

- 1. Connectivity along with storage capacity.
- 2. Seamless transportation decleases logistical hurdles.
- 3. Warehouses at pouts also gives boost to Sagarmala Pariyojana.

Building robust logistics is the key to the success of Natmanirbhai Bharat.

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Page 4 of 80

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What do you understand by the term 'irrigation scheduling'? Bringing out
the advantages provided by it, discuss the difficulties faced in applying it on
a farm level. (150 words) 10

'सिंचाई निर्धारण (इरिगेशन शेड्यूलिंग)' पद से आप क्या समझते हैं? इसके द्वारा उपलब्ध कराये गए लाभों का वर्णन करते हुए, इसे खेत स्तर पर लागू करने के समक्ष आने वाली कठिनाइयों की विवेचना कीजिए।

Irrigation Scheduling refers to irrigating the crops as per their

demand by using some measuri

-ng instrument

Advantages of Terigation Scheduling

Di broblem of over-irrigation and under-irrigation can be resolved

Eg - using tensionneter

De Saving of electricity and groundwater . Eg - using water meters :

3: solves vacions environmental

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issues like Entrophication

Alkalinity of soil

soil crossion (4) Per crop more drop is available as envisaged under PM-krushi Sinchayi Yojana. Eg using micho issigation techniques. Certain Difficillées -> Inadequate infrastructure. (less than 1% of GDP invested on iverigation manareness and high costs of equipments like drip, spinkler irigation, etc. > lack of Extension services by Kirshi Vigyan Kudias Irrigation Scheduling has a poten that to solve natur sthess and crop · Thus, difficulties must be sesolved Visit us : www.visionias.in Cartier

Don't write anything this margin (হুব সাল সঁ লুফ ৰা জিঔাঁ)

4. While the Pradhan Mantri Fasal Bima Yojana was touted as the largest crop insurance scheme globally in terms of farmer participation, various concerns have arisen since its implementation. Discuss. (150 words) 10 यद्यपि, प्रधान मंत्री फसल बीमा योजना को किसानों की भागीदारी के संदर्भ में वैश्विक स्तर पर सबसे बड़ी फसल बीमा योजना बताया गया था, नथापि इसके कार्यान्वयन के बाद कई चिंताएं उत्पन्न हुई हैं। चर्चा कीजिए।

bradhan Mantri Fasal Bima Yojana provides insurance cover to farmers in case of crop damage by pest atta-ck, natural disaster and so on

Benefits fou farmers

1. Losses faced by farmers on account of crop loss reimbursed by the scheme.

- D. Act as collatival ⇒ institution
 -al credit availability.
- 3 brevents Farmers suicide due to droughts and crop losses.

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However, several concurs have been highlighted -1) Delay in disbursal of claims => Financial clunch fou formers @ States not paying insurance premium to insurance companies due to high fiscal deficit - issue of under inclusion and over exclusion -> Corruption and leakages 9. Farmers not aware about the Way Forward bwareness Call us: 8468022022, 9019066066

Page 8 of 50

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5. The Stockholm Conference commenced the contemporary "environmental era", which brought a paradigm shift in the environmental governance and set a tone for multi-lateral environmental regime. Discuss. (150 words) 10 स्टॉकहोम कॉन्फ्रेंस ने समकालीन "पर्यावरण युग" की शुरुआत की, जो पर्यावरणीय गवर्नेंस में एक आदर्श बदलाव लाया और उसने बहु-आयामी पर्यावरणीय व्यवस्था के लिए एक दिशा प्रदान की। विवेचना कीजिए।

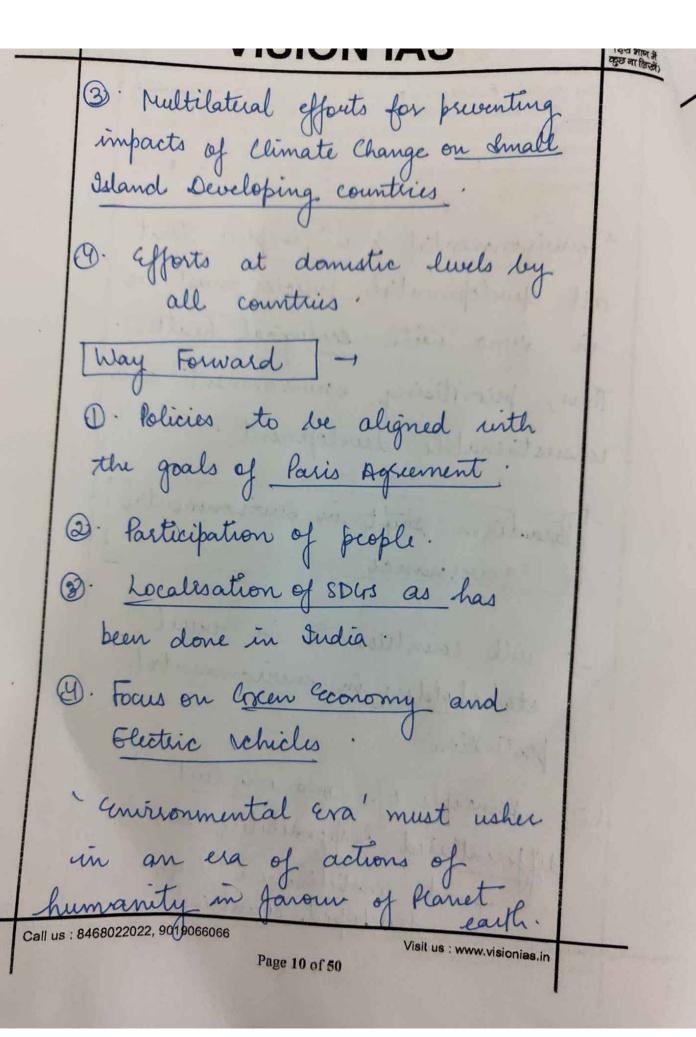
"Environmental Era" implies that all dwelopmental policies must be in sync with ecological health. Thus, prioritising environment over unsustainable development.

Paradigm shift in environmental governance

D. All countries to be equal stakeholders in environmental brotection

Descripte of Common leut differentiated Responsibility => funds mobilisation by developed countries.

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The world has witnessed a huge surge in climate-induced disasters, which 6. are largely driven by anthropogenic factors. In this context, analyse the role of early warning systems in mitigating the impact of the disasters.

(150 words) 10

विश्व में जलवायु-प्रेरित आपदाओं में अत्यधिक वृद्धि हुई है, जो बड़े पैमाने पर मानवजनित कारकों से प्रेरित हैं। इस संदर्भ में, आपदाओं के प्रभाव के शमन में पूर्व चेतावनी प्रणालियों की भूमिका का विश्लेषण कीजिए।

Climate Change has led to high frequency of intense weather events affecting disproportionately the marginalised

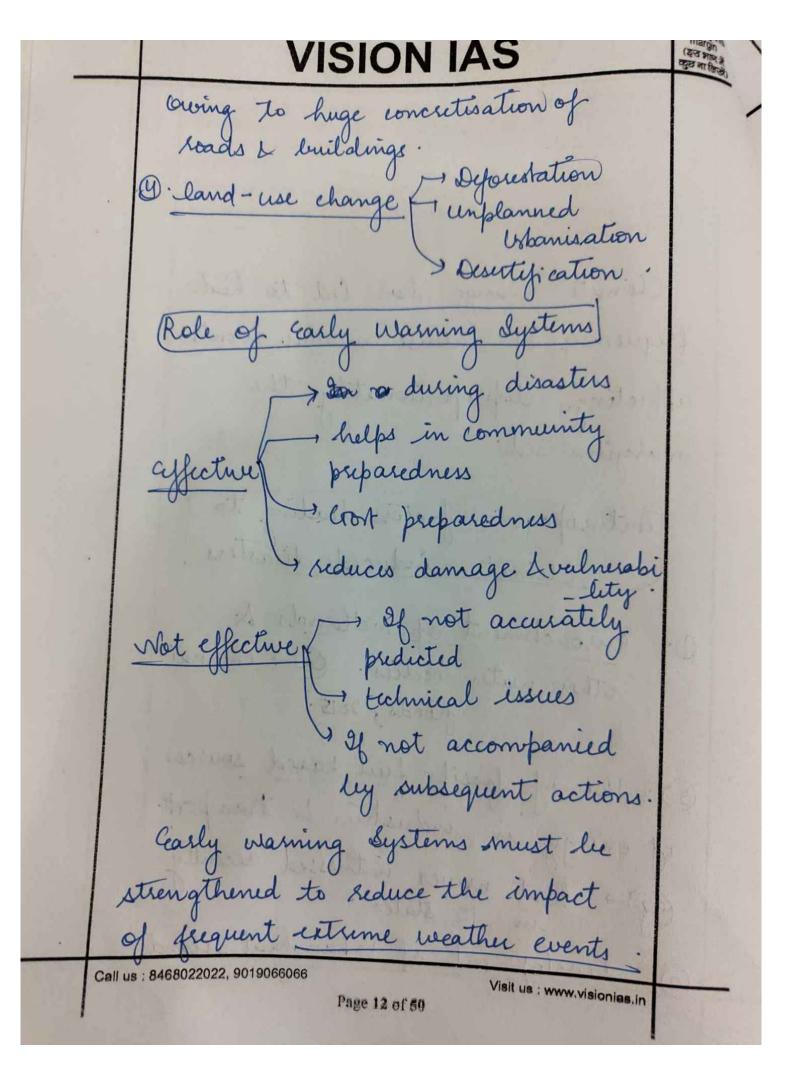
Anthropogenic factors leading to Climate - induced disasters

- 1. Ensoachment of wetlands & other water bodies. (g)floods, 2015.
- 2) Use of fossil-fuel based sources energy in industries & transport. heat naves intressed secently in 15 states.

Development of USban heat Islands Visit us : www.visionias.in

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Page 11 of 50



7. Critically examine the implications of leveraging technology in policing.
(150 words) 10
पुलिस व्यवस्था (पुलिसिंग) में प्रौद्योगिकी का लाभ उठाने के निहितार्थों का समालोचनात्मक
परीक्षण कीजिए।

Policing in India is mired by several challenges highlighting The need for reforms. Technology can play a great sole in this regard

Positive Implications

1. helps in coordination among different departments - &

and climinals . Eg - DNA profiling

3. Irwent ceime at first stage

(g) - use of facial sucognition technology.

1. affective against new age crimes like typer attacks. 60-

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NATGRID

(5) Reporting of crimes might go up-(g) - Cybercrime seporting poutal, online FIR, etc.

flowever, certain concerns also arise with use of technology!

- 1. Pacial profiling might lead to surveillance state
- D. Against Right to privacy. &>
 using DNA without one's consent.
- 3. Technologies like Brainfungerprinting, etc. amount to self-incrimination (Art. 22) - Stanislores Case.

Way Forward (BN Brikrishna Committed)

Rights to privacy ensured

(Puttaswamy case)

Technology

Technology must be used in a way to provide justice to one and

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Dan't write anything this margin (इस भान्य में कुछ बा क्रिक्टें)

8. How far do you agree with the view that climate change poses a threat to international peace and security? (150 words) 10 आप इस विचार से कहाँ तक सहमत हैं कि जलवायु परिवर्तन अंतर्राष्ट्रीय शांति और सुरक्षा के लिए खतरा है?

climate Change not only has ecological rimplications but also has social, economic and political ones.

Climate Change: Threat to intern - ational peace

De Jesse of Climate refugees due to forced migration.

dweloped world for funds

mobilisation 'GD - USA exit out

of Paris Agreement

Policies of China like Debt trap

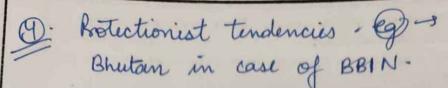
By Small Island developing nations

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Page 15 of 50





(5) Carbon tax might be employed to present free market access

Thus, several measures required in this regard -

- 1. Common leut Differentiated Responsition bility"- this principle must be adhered to.
- De Investment by developed countries in green technology in developing countries
- 3. Concerns of Amall Island develop ing nations must be prioritised.

Climate Change is a shared issue flence solution lies in effective cooperation and collaboration.

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Page 16 of 50

a What do you understand by a vintual	कुछ बा तिखों)
9. What do you understand by a virtual private network (VPN)? Highlight its advantages and discuss the concerns posed by it. (150 words) 10 वर्चुअल प्राइवेट नेटवर्क (VPN) से आप क्या समझते हैं? इसके लाभों पर प्रकाश डालिए और इससे उत्पन्न चिंताओं पर चर्चा कीजिए।	
उत्पन्न चितां पर चर्चा कार्रिण	
Virtual private network refers to	
hiding one's activity while starting	
on internet websites:	
crogle. Incognito mode of	
Advantages of VPN	
-> Ensures privacy rights of individual (Art. 21)	
-> switches off search alogorithms	
of websites.	
-, solvertisements targetling consu	
- mers can be prevented from	
-mers can be prevented from being visible on websites	
- Cyper attacks and fake or	
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Page 17 of 50

inseure websites can be avoided & Several concerns associated 1. Indi Wers demain deprive of desired recommendations based on search algorithms @ Might not be able to access all websites Advertising companies face Drug - trafficking Illicit activities tissorism can't be tracked black money Thus, VPN as a double edged sword must be used for level playing field to all and service providers Call us: 8468022022, 9019066066 Visit us : www.visionias.in Page 18 of 50

Dunt While anything this margin (হুব প্লান্য সঁ কুন্ত না ৱিক্ষা)

10. The discovery of the Higgs Boson at the Large Hadron Collider in CERNO completed 10 years recently. In this context, discuss the role played by CERN in overall scientific development. (150 words) 10 सर्न (CERN) स्थित लार्ज हैड्रॉन कोलाइडर में हिग्स बोसोन की खोज को हाल ही में 10 वर्ष पूरे हो

सन (OERIN) स्वित पाण ह्यान कालाइडर माहास बासान का खाज का हाल ही में 10 वर्ष पूरे हे गए हैं। इस संदर्भ में, समग्र वैज्ञानिक विकास में सर्न द्वारा निभाई गई भूमिका पर चर्चा कीजिए।

The discovery of the Higgs Boson at the large Hadron Collider in CERN highlights the Enstrument - al role of CERN in scientific development.

Role played by CERN

Decosystem in CERN.

2. Study of evolution of stars, planets and universe

3- Helpful in study of

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Page 19 of 50

VISION IAS" Black holes and gravitational waves. 1. Boost to sub-atomic 6. Inspiration of young scientific minds. (6) Study of birth, growth and decay of stars and study of solar system as a whole Thus, CERN has played tremendous sole in giving scientific development a new Call us: 8468022022, 9019066066

Page 20 of 50

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11. Highlighting the factors that affect the cropping pattern in India, discuss the need for modifying it in the context of the emerging agro-ecological concerns.

(250 words) 15 भारत में फसल पद्धति को प्रभावित करने वाले कारकों पर प्रकाश डालते हुए, उभरती कृषि-पारिस्थितिकी चिंताओं के संदर्भ में इसे संशोधित करने की आवश्यकता पर चर्चा कीजिए।

India has 15 agro-climatic zones thus many cropping patterns. How-ever, certain factors have led to distortion of cropping patterns.

factors affecting Cropping

pattern ->

D. Cran Revolution and its benefits => sice being grown in Punjab and Haryana.

3. State policies such as MSPs on sice and wheat leading to skewed battern.

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VISION IAS 3. Irrigation systems availability. Rice grown in Rungab, Haryana despite having less rains I less cultivation of rice in Bihar due to unavailability 9. Monsoon dependent (nion than 65% of India's agriculture rain-fed) Bajva, Jonear in Rajasthan, Jute in West Bengal, etc. (5). Geography and physiography + Tea in Assam and western chats, Coffee in Kamataka, etc. Weed to modify it 1. Unecological and Unsustainable cropping pattern > depletion of groundwater taples Call us: 8468022022, 9019066066 Visit us : www.visionias.in

Page 22 of 50

Punjab, Haryana, etc regional dispairty wheat & sice from Change making it necessary grow drought-resistant Bajra, Ragi. curb the menace of farmer suicide · (Eg) - Vidharbha -resistant crops Cropping Pattern decides the fate of farmers which has to for the growth of whole

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Page 23 of 50

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12. While the budgetary reforms undertaken by the Central government in recent years have led to better management of government expenditure, there are some issues that still need redressal. Discuss. (250 words) 15 जहाँ हाल के वर्षों में, केंद्र गरकार द्वारा किए गए बजटीय मुधारों के कारण मरकारी व्यय का बेहतर प्रबंधन संभव हुआ है, वहीं कुछ ऐसे भी मुद्दे विद्यमान हैं जिनका समाधान किया जाना अभी बाकी है। विवेचना कीजिए।

Budget tells about the financial health of a nation and the need for further investment measures for further growth and development

Benefits of Budgetary reforms

Therging of Railway Budget with General Budget led to effective outlay for railway investment.

Scrapping of non-developmental expenditure and developmental expenditure improved public's benefition.

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Page 24 of 50



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3: More frinds allocated for welfare schemes and capital expenditure.

(apital expenditure =) crowding-in

6. Crender Budgeting considering the concerns of women.

flowever, several issues >

e expenditure head needs to be shifted

Derrowing by states still confined to domestic market

3 Demand for grants not being

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Page 25 of 50

effectively debated and deliberated.

- Meagre allocation for social sectors like health, education, etc.
- 6. High expenditure under sevenue head leading to high fiscal deficit

Road Ahead -

- D' Budgetary allocation on health, education, needs to be increased.
- D' Corants-in-aid, welfare schemes, etc. Jou social sectors might be shifted to capital head.
- 3. Crender Budgeting needs to be strengthened.

Budget (Art. 112) must be designed in a way soas to empower vulnerable & usher in era of New India

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Page 26 of 80

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reed

For India to create a 'future ready' railway system, it must harness innovation and resource efficiency. Discuss the statement in the context of the measures enlisted in the National Rail Plan 2030. (250 words) 15

भारत को 'फ्यूचर रेडी' रेलवे प्रणाली के सृजन हेतु, नवाचार और संसाधन दक्षता का उपयोग करना चाहिए। राष्ट्रीय रेल योजना 2030 में सूचीबद्ध उपायों के संदर्भ में इस कथन की विवेचना कीजिए।

Indian sailway system is the fourth largest in the world. However, its potential still remains underutilized sequiring to take several effective measures.

Measures under National Rail Clan, 2020

1. Moving billion people safely i.e. focus on safety of lailways

D. Increasing share of freight transport in Railways

3. Issue of cross-subsidy to be

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Page 27 of 50

3. to solve issue of accidents.

3. Freight transport. (G) -> Dedicated freight corridors are being built.

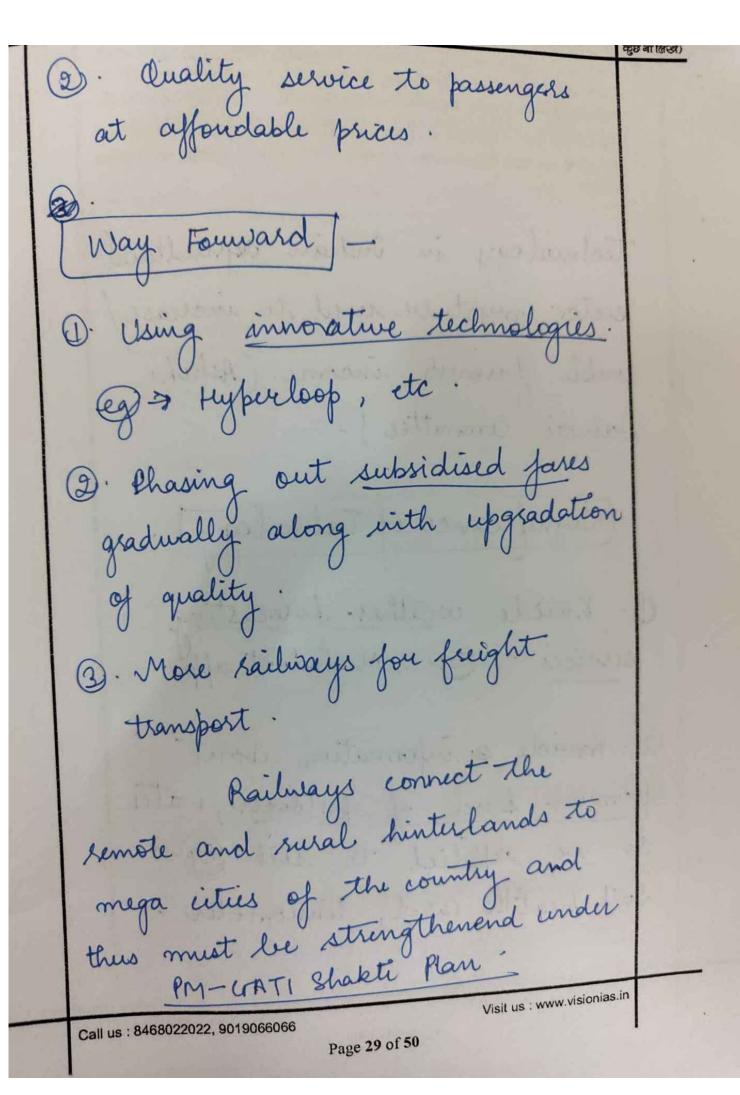
Need of sesource efficiency

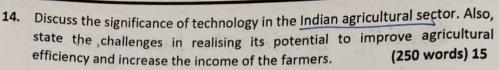
1. To improve operational 8 satio (currently 0.96)

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Page 28 of 50





भारतीय कृषि क्षेत्रक में प्रौद्योगिकी के महत्व पर चर्चा कीजिए। साथ ही, कृषि दक्षता में सुधार और किसानों की आय बढ़ाने की इसकी क्षमता का उपयोग करने में आने वाली चुनौतियों का भी उल्लेख कीजिए।

Technology in Indian ogricultural sector must be used to increase/ double farmer's income (Ashok Dalwai Committee).

Dignificance of Technology

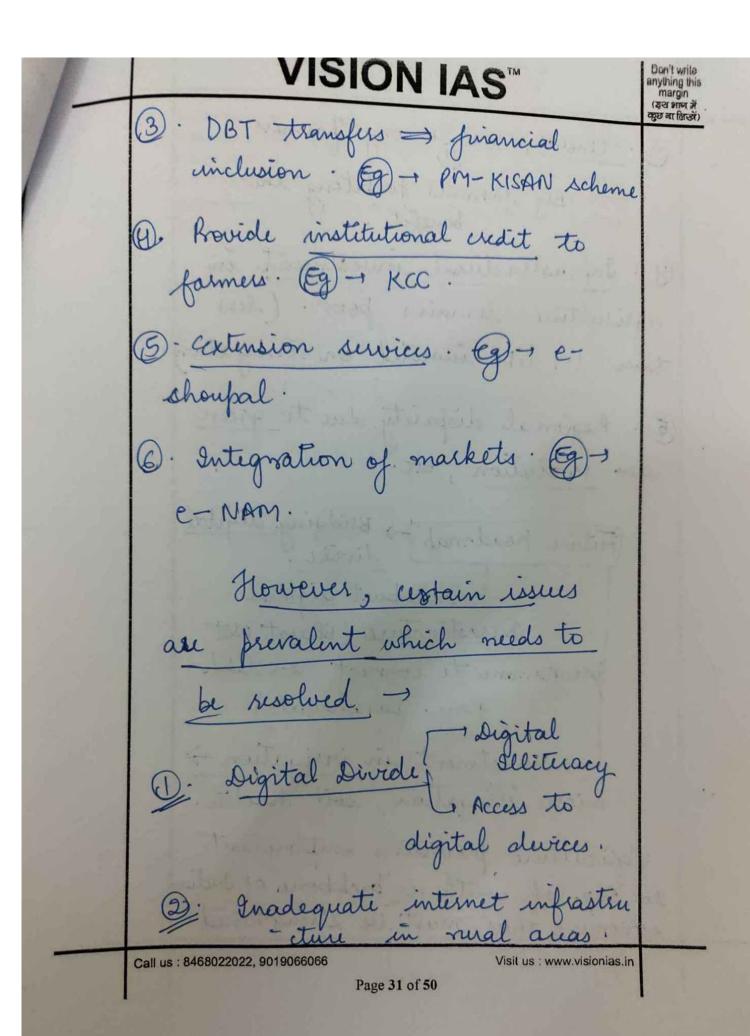
O- brovide weather forecasting services . Eg - Meghdoot app.

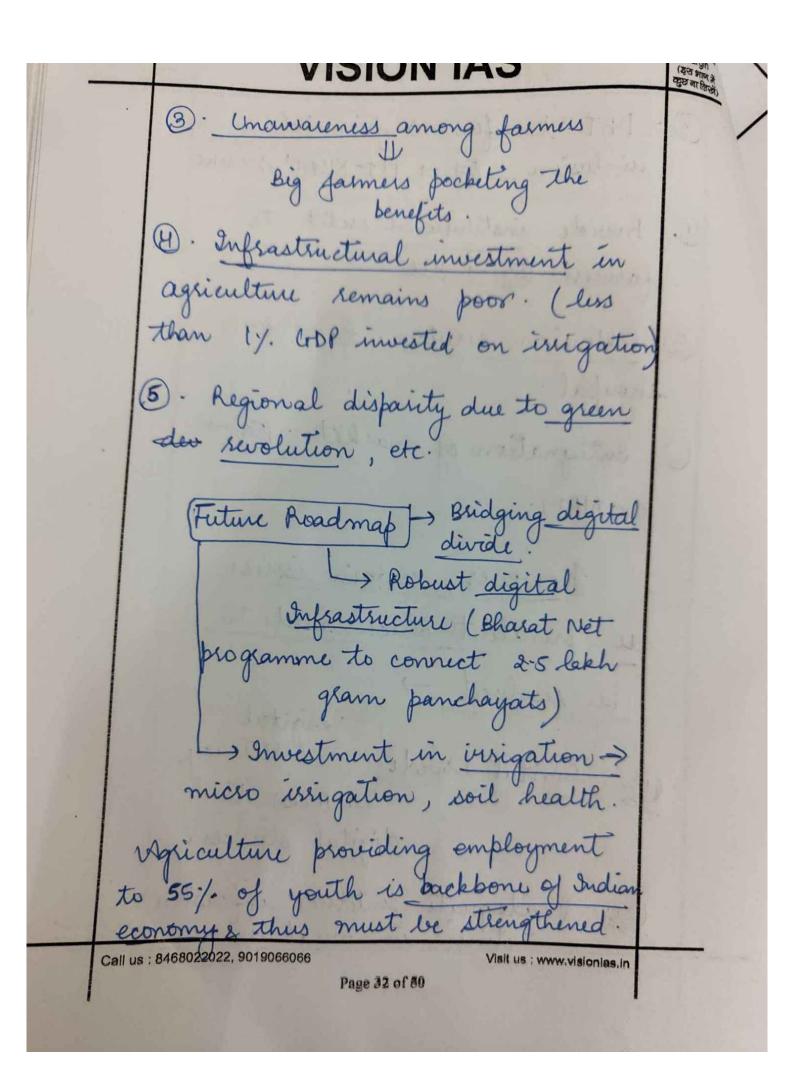
@ Provide & information about optimum sevel of fertilizer, water to be applied to soil . Egg ... Soil health card, tensionneter.

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Page 30 of 30





GONT WATE anything this margin (হুব পাল সঁ ফুড ৰা জিওৌ)

15. Despite the digital transformation in the Public Distribution System (PDS) in India, several challenges still remain. Elaborate. Also, suggest measures to address them.

(250 words) 15

भारत में सार्वजनिक वितरण प्रणाली (PDS) में डिजिटल रूपांतरण के वावजूद, अभी भी अनेक चुनौतियां विद्यमान हैं। सविस्तार वर्णन कीजिए। साथ ही, इनके समाधान हेतु उपायों का मुझाव दीजिए।

Public Distribution System under NFSA, 2013 provides food security to 75% of swal youth and 50%. of urban population.

Digital transformation in PDS

machines point of sale

machines quality foodgrains

at Fair to consumers.

Price shops heeps corruption in

check:

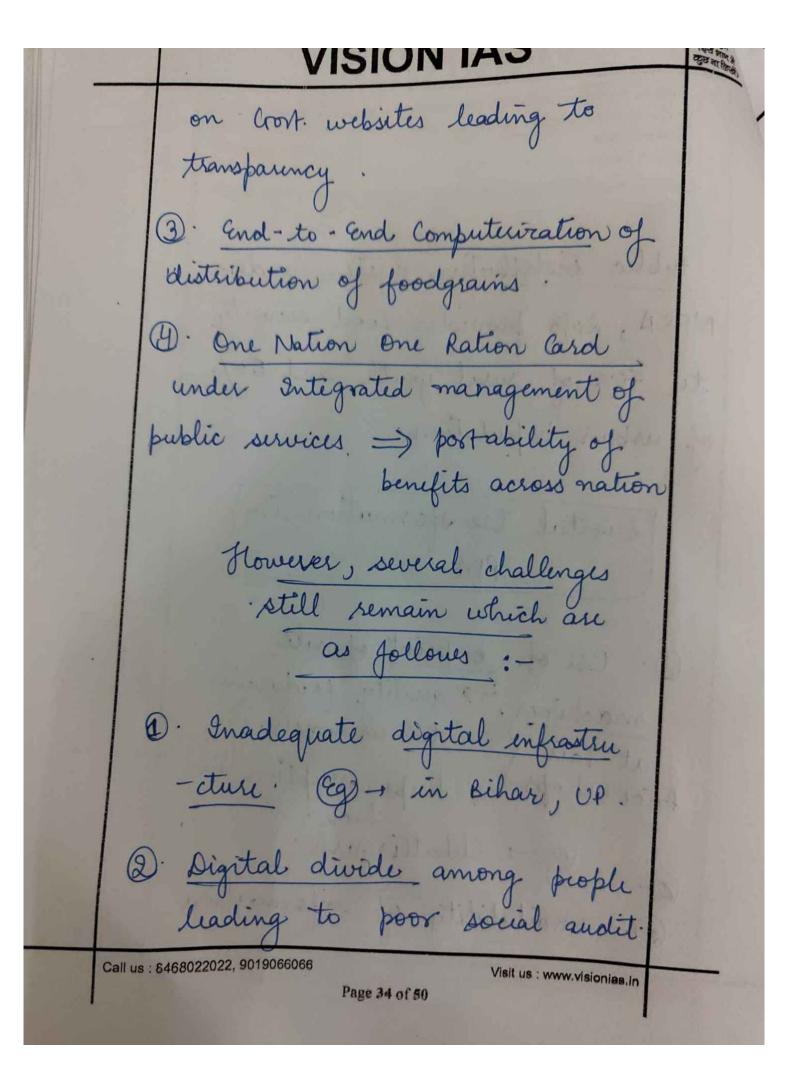
B. Eg - Chhattisgarh.

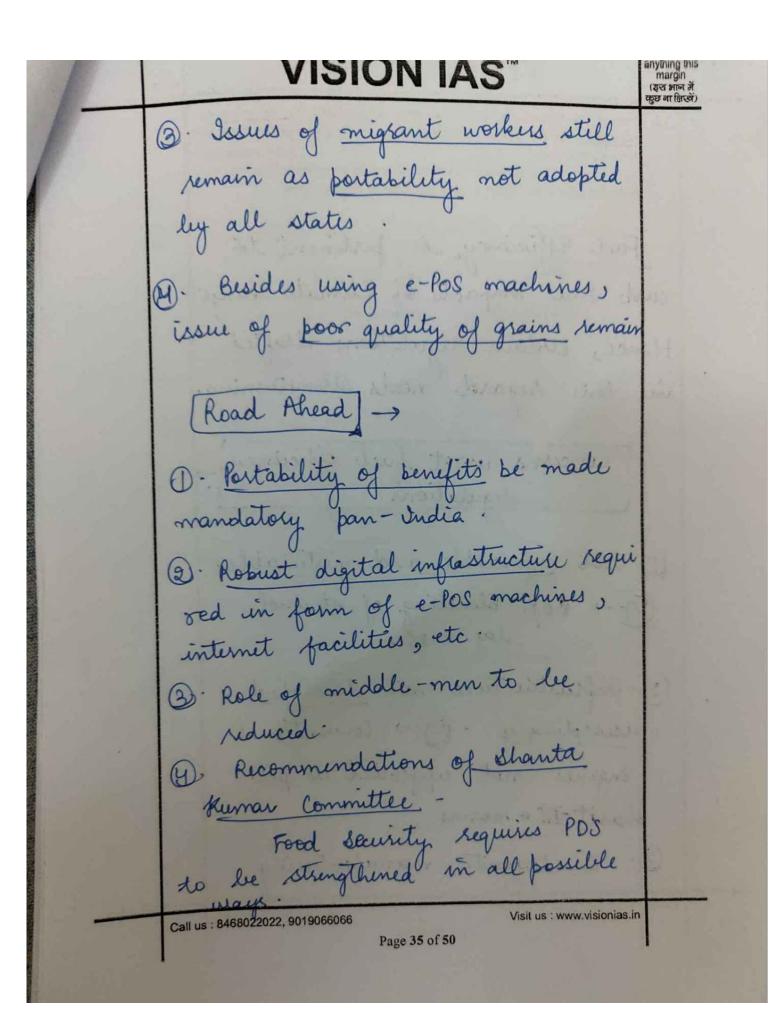
2. Availability of information

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Page 33 of 50





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16. Discuss the various concerns that exist with regard to fuel efficiency regulations for vehicles in India. Also, suggest the measures that can be taken in this regard.

(250 words) 15

भारत में वाहनों के लिए ईंधन दक्षता विनियमों के संबंध में विद्यमान विभिन्न चिंताओं पर चर्चा कीजिए। साथ ही, इस संदर्भ में किए जा सकते वाले उपायों का भी सुझाव दीजिए।

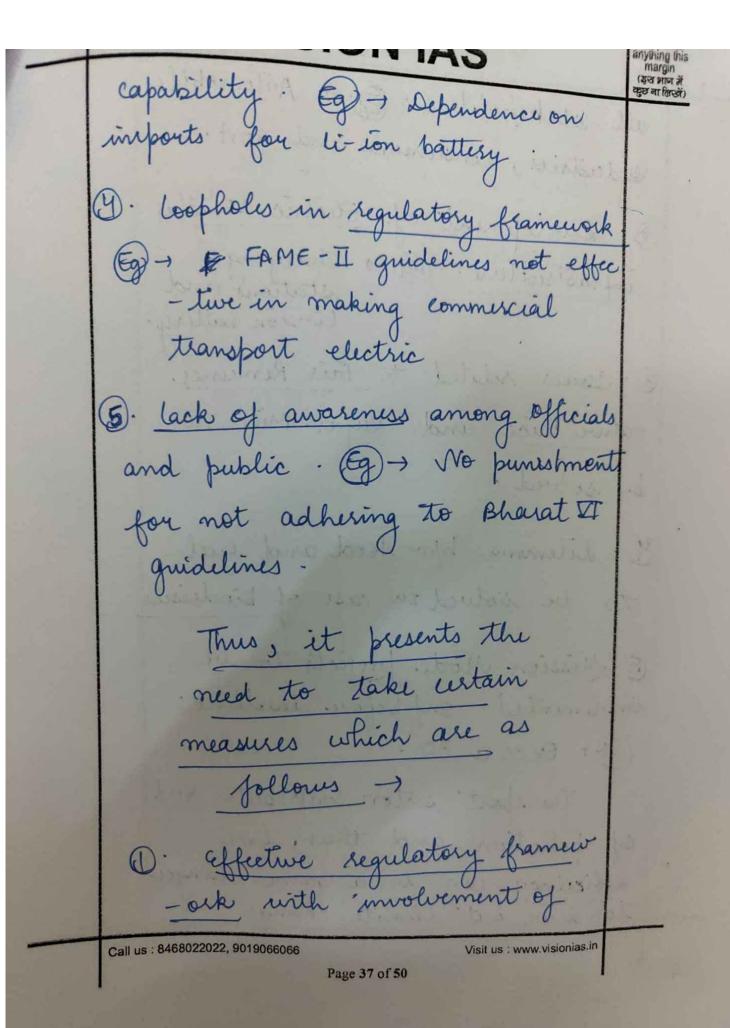
Fuel Efficiency is pertinent to curb the impacts of Climate Change Hence, certain regulations drafted in this regard needs strengthening.

Concerns w.r.t fuel efficiency, regulations

- 1. Not enforceable and gisticiable
 - Eg -> 20%. Blending of ethanol by 2025.
- Despristructure not developed accordingly · € Conventional regines not upgraded as per
- 3. Inadequate manufacturing

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SION IAS all stakeholders & Automobile Industries, consumures and got. @ Development of Electric Vehicles infrastructure & charging and 3. Issues related to Fair Remuner - ative Price and Engas Mills to be solved 9. Dilemma b/w food and fuel to be solved in case of biodiscles 3. Mission Mode projects to be implemented on before deadline. (5g) EV 30 @ 30 Transport sector contributes 80%. of pollution and thus, ful efficiency can be a game-changer out Climate Change Visit us : www.visionias.in Page 38 of 50

17. Urban fire is becoming a serious cause of concern in Indian cities. In this context, highlight the major causes behind urban fires in India. What steps can be taken to build robust fire resilience in Indian cities? (250 words) 15 शहरी आग (अर्वन फायर) भारतीय शहरों में चिंता का एक गंभीर कारण बनती जा रही है। इस संदर्भ में, भारत में शहरी आग के प्रमुख कारणों पर प्रकाश डालिए। भारतीय शहरों में मजबूत अग्नि रोधी क्षमता के निर्माण हेतु क्या कदम उठाए जा सकते हैं?

Urban fires have become more frequent than ever be it in industries, factories, homes, hotels, hospitals & & Recent Japalpur hospital fire, Karol By Bagh hotel fire in 2019, etc.

Urban fires: Cause of Concern

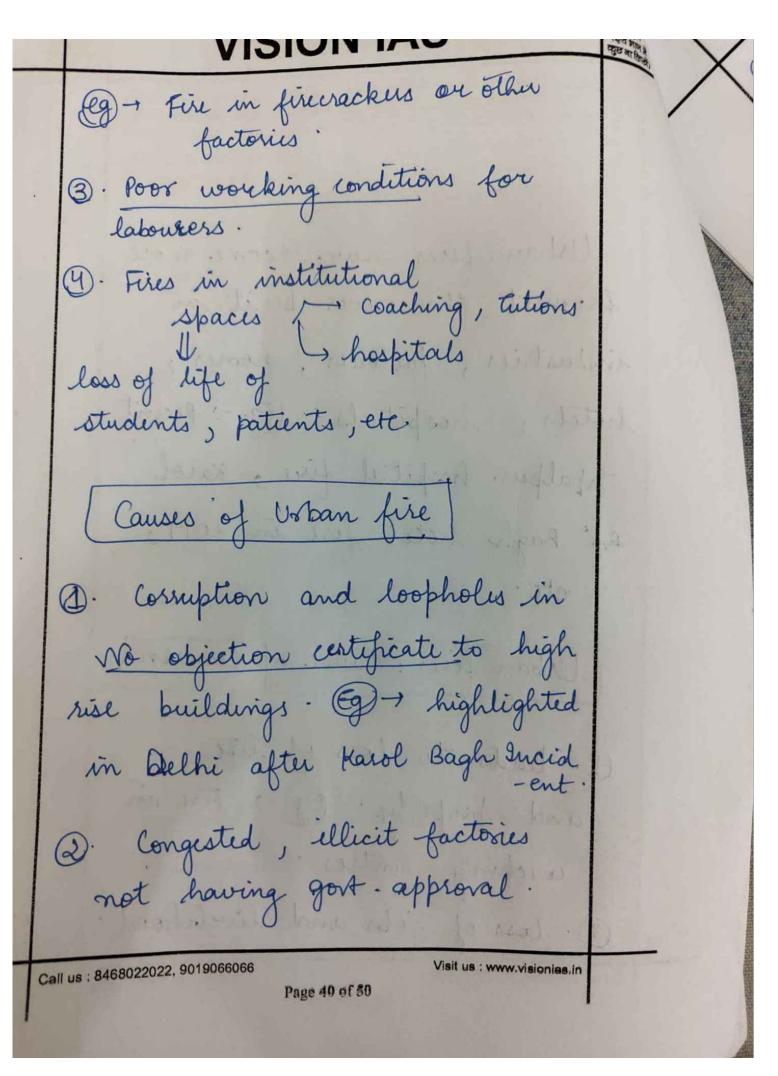
1. leads to loss of life and property. (9) > Fire in coaching centres

2. Coss of jobs and livetihood

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Page 39 of 50

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18. Drones in border areas present a serious threat for border management in India. Elaborate. Also, discuss the different measures taken to regulate the Use of drones in India. (250 words) 15 use of drones in India. सीमावर्ती क्षेत्रों में ड्रोन, भारत में सीमा प्रबंधन के समक्ष एक गंभीर खतरा उत्पन्न करते हैं। सिमावर्ती क्षेत्रों में ड्रोन, भारत में ड्रोन के उपयोग को बिनियमित करने के लिए किए गए सिवस्तार वर्णन कीजिए। साथ ही, भारत में ड्रोन के उपयोग को बिनियमित करने के लिए किए गए विभिन्न उपायों पर वर्षा कीजिए।

Recently, drone guidelines have been published to encourage use of technology along with ensuring national security and integrity.

Drones: A threat for border management

De Use of spy drones ley neighbouring countries (Eg) one found on Pakistan bouder

De use of drones for smuggling drugs weapons Ammunition

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Page 42 of 80

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3: Drones leyond visual limit might hamper patrolling operations

9. Drones embedded with bombs

new warfare unmanned and. causing great damage.

6. Tracking personnel and revealing -g confidential information (g) using micro and nano drones.

Measures taken in India

1. New Drone Rules to regulate, categorising drones and areas

Eg - Drones T Nano as per weight small

Areas Red as per security rellow and strategic

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Page 43 of 50

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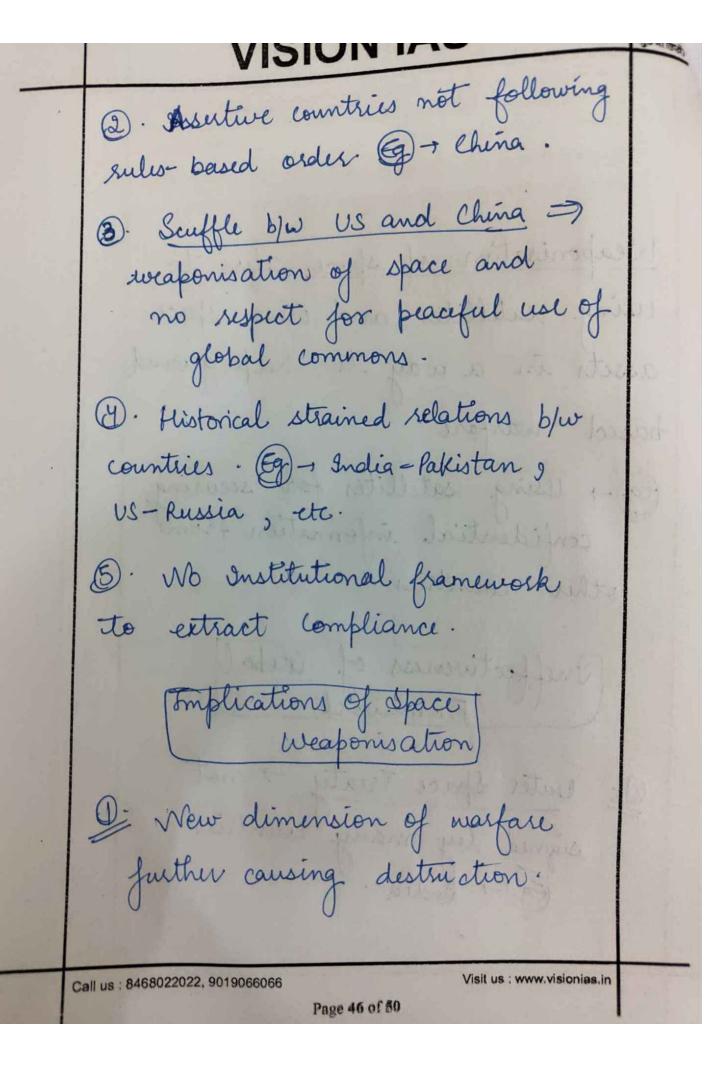
point of view. Director General of Civil Aviation to register use of drones. 3. License required for operating deones in certain areas. (Eg) - rear airport, not allowed in border areas. Drones not allowed beyond 400 m or visual dine Drones as an innovative technology must be used and regulated in a balanced way to ensure peace & prosperity country and world as a whole. Call us: 8468022022, 9019066066 Visit us : www.visionias.in Page 44 of 50

work to prevent weaponization of space, it has been increasing in the recent times. Discuss. Also, give an account of the implications of space weaponization. (250 words) 15 अंतरिक्ष के शस्त्रीकरण को रोकने के लिए एक वैश्विक ढांचा होने के वावजूद, हाल के दिनों में इसमें वृद्धि हुई है। चर्चा कीजिए। साथ ही, अंतरिक्ष के शस्त्रीकरण के निहितार्थों का विवरण दीजिए। Weaponisation of space refers to using satellites and other space assets in a way to help ground based warfare (eg) - Using satellites for securing confidential information from other countries Ineffectiveness of Global Framwork De Outer Space Treaty -> not signed by many countries (Eg) - India

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Page 45 of 50



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- De Power centres like US, Russia, China having greater edge already will further concentrate power.
- 3. Anonymous attacks & Cyber attack by thing on India
 - (9). No peaceful resolution of tees. Rather, further strain might occur

(3) Other concerns of Abuse of human rights

Misuse of Technology.

Thus, an effective global and domestic legal framework needs to be evolved to ensure that global commons are not weaponised.

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Page 47 of 50

20. What do you understand by a bio-economy? Highlight the role that the National Biotechnology Development Strategy 2021-2025 can play in creating a robust bio-economy in India.

बायो-इकोनॉमी (जैव-अर्थव्यवस्था) से आप क्या समझते हैं? भारत में एक मजबूत बायो-इकोनॉमी के सुजन में राष्ट्रीय जैव प्रौद्योगिकी विकास रणनीति 2021-2025 द्वारा निभाई जा सकने वाली भूमिका पर प्रकाश डालिए।

Bio-economy refers to use of biology and biotechnology in economic development.

Eg) -> Crenetic Congineuring, Coenome Sequencing, etc.

Role of National Biotechnology Development Strategy

O Focus on innovative technologies · Eg - Crene editing, genome sequencing, etc.

2). Focus on skilling students in the discourse of

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Page 48 of 50

biotichnology.

- 3. Diabetes, etc.
- (9). Helpful in containing bandemisselike covid-19. (2) studying gene mutations, etc.
 - 5 Creating more labs and strengthening existing ones like CSIR,

6. Creating Genome for refrence to study various disease and genetic mutations.

However, cortain challinges are required to

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Page 49 of 50

VISION IAS be tackled · Cethical concurs assing out of these technologies (Eg) -Designes babies, cloning, etc. 2. Convironmental issues and natural ecosystem disturbance - 4M crops 3. New forms of inequalities might get created & Genetic inequality Way Forward - D-legal Framework sequired to surb unethical practices. 2 Institutional mechanisms like GEAC must be strengthened Bio-economy can be a gamechange to change the face New India and its people. Call us: 8468022022, 9019066066 Visit us : www.visionias.in Page 50 of 50