

## ABHYAAS MAINS

### सामान्य अध्ययन (प्रश्न पत्र-III)/GENERAL STUDIES (Paper-III) (2033)

निर्धारित समय: तीन घंटे

Time Allowed: Three Hours

अधिकतम अंक: 250

Maximum Marks: 250

#### सामान्य अनुदेश

इस प्रश्न-सह-उत्तर (क्यू.सी.ए.) पुस्तिका में 55+1 पृष्ठ हैं। प्रश्न-पत्र, क्यू.सी.ए. पुस्तिका के अंत में संलग्न है, जो अलग (वियोज्य) किया जा सकता है और उम्मीदवार परीक्षा के उपरांत अपने साथ ले जा सकते हैं।

रफ कार्य के लिए, इस पुस्तिका के अंत में खाली पृष्ठ दिया गया है।

पुस्तिका प्राप्त होने पर, कृपया यह जांच कर लें कि इस क्यू.सी.ए. पुस्तिका में कोई कमी न हो, फटा हुआ पृष्ठ न हो अथवा कोई पृष्ठ गायब न हो इत्यादि। यदि ऐसा हो, तो इसके बदले नई क्यू.सी.ए. पुस्तिका प्राप्त कर लें।

#### **General Instructions**

This Question-Cum-Answer (QCA) Booklet contains 55+1 pages. Question Paper in detachable form is available at the end of the QCA Booklet which can be taken away by the candidate after examination.

For rough work, blank page has been provided at the end of this Booklet.

On receipt of the Booklet, please check that this QCA Booklet does not have any shortcomings, torn or missing pages etc. If, so, get it replaced with a fresh OCA Booklet.

### (उम्मीदवार द्वारा भरा जाएगा/To be filled by the Candidate)

पंजीकरण सं./Registration No.

166 00 5

अभ्यर्थी का नाम/Name of Student :\_

Anjali Shrotriya

### सामान्य अध्ययन (प्रश्न पत्र-III) GENERAL STUDIES (Paper III)

माध्यम: हिंदी/अंग्रेजी Medium: Hindi/English

English

तारीख Date 19/12/ 2021

केंद्र			
Centre			

निरीक्षक के हस्ताक्षर Invigilator's Signature

	महत्वपूर्ण अनुदेश	Important Instructions		
	उम्मीदवारों को नीचे उल्लिखित निर्देश सावधानी से पढ़ लेने चाहिए। किसी भी निर्देश का उल्लंघन करने पर उम्मीदवारों को मिलने वाले अंकों में कटौती, उम्मीदवारी रद्द या आयोग के परवर्ती परीक्षाओं के लिए वर्जित करने इत्यादि के रूप में दण्डित किया जा सकता है।	Candidates should read the undermentioned instructions carefully. Violation of any of the following instructions may entail penalty in the form of deduction of marks, cancellation of candidature, debarment from further Examination of the Commission etc.		
1	<ul> <li>(क) अपना पंजीकरण सं. एवं अन्य विवरण केवल प्रश्न- सह-उत्तर पुस्तिका में उम्मीदवार के लिए निर्धारित स्थान पर ही लिखें।</li> <li>(ख) इस पुस्तिका में अन्यत्र कहीं भी अपना नाम, पंजीकरण सं., मोबाइल नं., पता अथवा प्रश्न-सह- उत्तर पुस्तिका संख्या न लिखें जिससे आपकी पहचान का खुलासा हो।</li> </ul>	<ul> <li>(a) Write your Registration Number and other details only in the space provided in the Question-Cum-Answer (QCA) Booklet for candidates.</li> <li>(b) Do not disclose your identity in any manner such as, by writing your Name, Registration number, Mobile number, Address, Question-Cum-Answer (QCA) Booklet No. etc. elsewhere in the Booklet</li> </ul>		
2	अपनी प्रश्न-सह-उत्तर पुस्तिका में कहीं भी प्रश्नों के वास्तविक उत्तर के अतिरिक्त कुछ न लिखें जैसे कि कोई कविता/दोहा, अभद्र या अपमानजनक अभिव्यक्ति इत्यादि और न ही कोई ऐसा चिन्ह/निशान बनाएं जिसका उत्तर से सम्बन्ध न हो।	Do not write in the QCA Booklet anything other than the actual answer such as couplet, obscene, abusive expression etc., nor put any sign/mark having no relevance to the answer.		
3	परीक्षक को प्रत्यक्ष/अप्रत्यक्ष रूप से कोई भी प्रार्थना/ धमकी भरी बातें न लिखें।	Do not make any direct/indirect appeal/threat to the examiner.		
4	उत्तर अस्पष्ट अथवा गंदी लिखावट में न लिखें। इस प्रकार के उत्तर का मूल्यांकन नहीं भी किया जा सकता है।	Do not write answers in bad/illegible handwriting. Such answers may not be evaluated.		
5	उत्तर स्याही में ही लिखें। उत्तर लिखने के लिए पेंसिल का उपयोग न करें, हालांकि आरेख, चित्र इत्यादि बनाने के लिए पेंसिल का उपयोग किया जा सकता है।	Write answers in ink only. Do not use pencil for writing the answers. However, pencil may be used for drawing diagrams, sketches, etc.		
6	प्रवेश पत्र में उल्लेख किए गए माध्यम के अलावा अन्य किसी माध्यम में उत्तर न लिखें। अधिकृत और अनिधकृत की मिली जुली भाषा का भी उपयोग न करें।	Do not write answers in medium other than the authorized medium in the Admission Certificate. Do not use mixed language either i.e. authorize and unauthorized media together for writing answers.		
7	प्रश्नों के उत्तर ठीक उसके नीचे दिए गए निर्धारित स्थान पर ही लिखें। निर्धारित स्थान के अलावा किसी अन्य स्थान पर लिखे गए उत्तर का मूल्यांकन नहीं किया जाएगा।	Write answer at the specific space (right below the question) only. Answers written elsewhere at unspecified places in the booklet shall not be evaluated.		
8	यदि आप अपने किसी उत्तर को रद्द करना चाहते हैं तो उसे पेन से काट दें तथा उस पर "रद्द" लिख दें, अन्यथा उसका मूल्यांकन किया जा सकता है।	If you wish to cancel any work, draw your pen through it and write "Cancelled" across it, otherwise it may be valued.		

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परीक्षक के हस्ताक्षर Signature of Examiner(s)	

### प्राप्तांक के विवरण (परीक्षक द्वारा भरा जाए)/ Marks Details (To be filled by the Examiner(s))

प्रश्न सं. Q. No.	अंक Marks	प्रश्न सं. Q. No.	अंक Marks	
1		11		
2		12		
3		13		
4	0	14		
5		15		
6		16		
7		17		
8		18		
9		19		
10		20		
उप-योग (A) Subtotal (A)		उप-योग (B) Subtotal (B)		
सकल	योग (A+B) / GRAN	D TOTAL (A+B)		



### सामान्य अध्ययन (प्रश्न पत्र-III)/GENERAL STUDIES (Paper-III) (2033)

निर्धारित समय: तीन घंटे

Time Allowed: Three Hours

अधिकतम अंक: 250

Maximum Marks: 250

#### प्रश्न-पत्र संबंधी विशेष अनुदेश

कृपया प्रश्नों के उत्तर देने से पूर्व निम्नलिखित प्रत्येक अनुदेश को ध्यानपूर्वक पढ़ें:

कुल **बीस** प्रश्न दिए गए हैं जो **हिंदी** और अंग्रेजी दोनों में छपे हैं।

सभी प्रश्न अनिवार्य हैं।

प्रत्येक प्रश्न/भाग के लिए नियत अंक उसके सामने दिए गए हैं।

प्रश्नों के उत्तर उसी माध्यम में लिखे जाने चाहिए, जिसका उल्लेख आपके प्रवेश-पत्र में किया गया है, और इस माध्यम का स्पष्ट उल्लेख प्रश्न-सह-उत्तर (क्यू.सी.ए.) पुस्तिका के मुख-पृष्ठ पर निर्दिष्ट स्थान पर किया जाना चाहिए। उल्लिखित माध्यम के अतिरिक्त अन्य किसी माध्यम में लिखे गए उत्तर पर कोई अंक नहीं मिलेंगे।

प्रश्न संख्या 1 से 10 तक का उत्तर 150 शब्दों में तथा प्रश्न संख्या 11 से 20 तक का उत्तर 250 शब्दों में दीजिए।

प्रश्नों में इंगित शब्द सीमा को ध्यान में रखिए।

प्रश्न-सह-उत्तर पुस्तिका में खाली छोड़े गए कोई पृष्ठ अथवा पृष्ठ भाग को पूर्णतः काट दीजिए।

#### QUESTION PAPER SPECIFIC INSTRUCTIONS

Please read each of the following instructions carefully before attempting questions.

There are TWENTY questions printed both in HINDI and in ENGLISH.

All questions are compulsory.

The number of marks carried by a question/part is indicated against it.

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 a medium other than the authorized one.

Answers to Questions No. 1 to 10 should be in 150 words, whereas answers to Questions No. 11 to 20 should be in 250 words.

Keep the word limit indicated in the questions in mind.

Any page or portion of the page left blank in the Questions-cum-Answer Booklet must be clearly struck off.

# **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: 1. 2. 3. 4. 5. 6.

All the Best

भारत में कृषि प्रसार से सम्बद्ध मुद्दों का उल्लेख करते हुए, राष्ट्रीय कृषि अनुसंधान प्रसार प्रणाली को सुदृढ़ बनाने में कृषि विज्ञान केंद्रों (KVKs) की भूमिका पर चर्चा कीजिए। (उत्तर 150 शब्दों में दें)

Stating the issues associated with agricultural extension in India, discuss the role of Krishi Vigyan Kendras (KVKs) in strengthening the national agricultural research extension system. (Answer in 150 words)

उम्मीदवारों को इस झशिए में नहीं लिखना चाहिए Candidates must not write on this margin

The agriculture extension services beyond production
the extension services beyond production
in agriculture mostly concerned after
howing

Mechanisation
Processing & Value addition
Processing & Value addition
Research & development
Information dissemination
Antonoction dissemination
activities

Junes in agricultural Extension

Pour Information & communication

dissemination framework (180)

Acres of diffusion of technology and

innovation in agriculture

(3) Paor mechanisation (only 40%) 96%-L due to small and fragmented land holdings Indis China CISA 86% farmers are small Poor Processing and Value addition

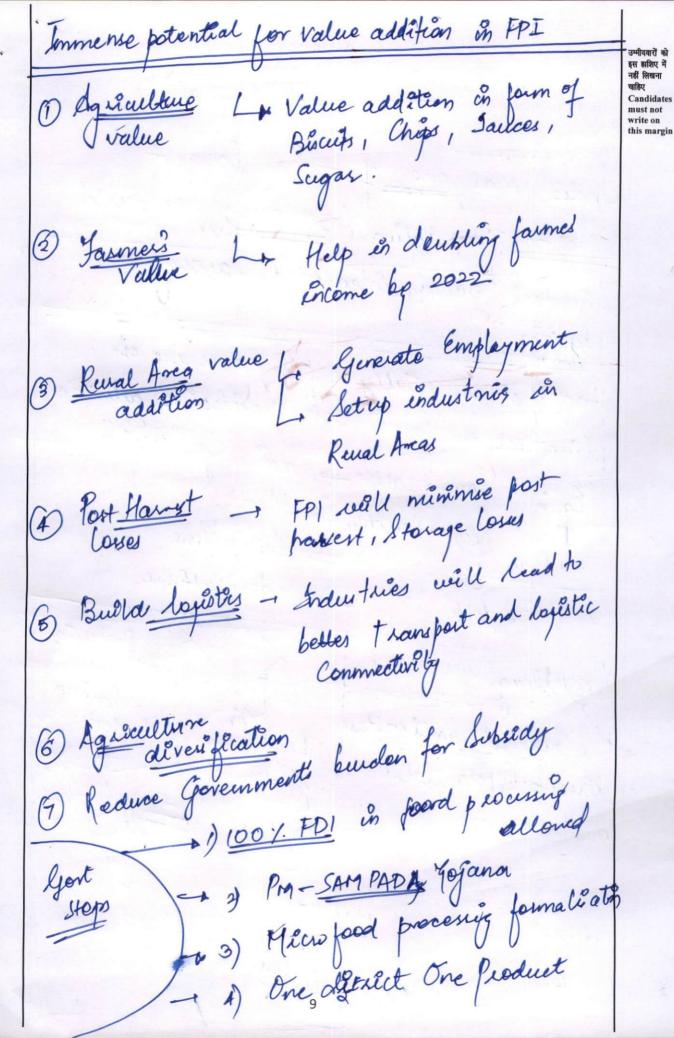
Le food processing only at flusty primary
level (such wheat) B Perearch and development in agriculture isles Role of KVK in strengthening lesearch extension Feitelier Urage 3 Provide with Technological impetus
and machinery Help riwal youth in agriculture Juh minim Jub mission on mechanisation needs to be promoted well.

भारत में, खाद्य प्रसंस्करण क्षेत्रक मूल्य संवर्द्धन की अपार संभावनाओं के कारण एक उच्च संवृद्धि और उच्च लाभ के क्षेत्रक के रूप में उभर रहा है। चर्चा कीजिए। (उत्तर 150 शब्दों में दें)

In India, the food processing sector is emerging as a high-growth and high-profit sector due to its immense potential for value addition. Discuss. (Answer in 150 words)

उम्मीदवारों को इस हाशिए में नहीं लिखना चाहिए Candidates must not write on this margin

Food Processing sector is a <u>Surshine</u> industry — Exports > 14% Employment. Blomn Tom fluge Surplus a Production Food Processing Climate is Conducive of foodgrains recorday level Primary Level
- Rice + Su Chocolde - Sugarlane Bucutes Puits jelles fuits Wheat Underexplored Rice > Food processing Fisher Tuna Processing 8



(Answer in 150 words)

उम्मीदवारों को इस झशिए, में नहीं लिखना चाहिए Candidates must not write on this margin

India has one of the largest lives tock population (50.2mm) in world Livertock based integrated farming L. O It essentially refers to usage of lever took on form for productive activities · Cours & Cartle -> doing production
· Pegs & Pouttry -> Meat
- Apr Culture
· Beas Leri Culture · Silk, L 3 Along with the normal agriculture blues toch potential is alm hounessed

Benefits of livestock based - IFS Offarmers & Double farmer income (Achok lokeval)
Reducing farmer distress 2) Agriculture productivity to regain festility 3) Women Empoweument 3 as leves facte

A) Round area done laborant 4) Reval area development Promotion of Endegenous breeds & Gi, Sahibal & Promote Front. Promote Food processing & doing Tope Panner

(8) Promote alternative (8) Promote alterative ægsiculture areas Source of income dry land

(9) Important in dry land

(6): Rayaliseema, Vedharbha animal can be used Departe Departe farming Thus. Rives tock based IFS will prove to be been for farmer and agriculture rector

must not write on जहाँ भारतीय मूल के व्यक्ति (PIO) विश्व भर में उद्यमिता का नेतृत्व कर रहे हैं, वहीं भारत में अभी भी उद्यमिता दर सबसे कम है। चर्चा कीजिए। साथ ही, भारत में उद्यमिता की गति को बढ़ाने के लिए उठाए गए नीतिगत उपायों का भी उल्लेख कीजिए। (उत्तर 150 शब्दों में दें)

While Persons of Indian Origin (PIO) are spearheading entrepreneurship across the world, India still has one of the lowest entrepreneurship rates. Discuss. Also, state the policy measures that have been taken to increase the pace of entrepreneurship in India. (Answer in 150 words)

उम्मीदवारों को इस क्षशिए, में नहीं लिखना चाहिए Candidates must not write on this margin

The record rise of Twitter Cto, Surday Pichai (Google (50), Satya nodolela (microsoge) India Neagi (ex-Paprico) -> paints a very delighted pictures of Indians spearheading that back in the country lenter presserving & in a bad shaper leading to low employment, Research Georgetem and wastage of demographic dividend Entrepreneurs hip Rate - low in India doernt promote lisk taking burness more gab arented 1 Societal Culture les focus on innovation @ Education System

24% multidimensionally poor people, struggle with basic necessitie (3) Economical reason इस हाशिए में 1 Lock of industry - academia linkage 3) Tuchnological know how and skells are low 6) High gestational period Le we seek instant gratification (P) (Rad) in dia is low only (0.7% GDP is spend) 8) Pour perception cost vocational education 3 Inequality 2 high [ or fam: 10% wealth] (10) Glomen, SC, ST - face exclusion Polly measures taken to increaser Entre pre-neurship PSLto Incubation Ally -NITI aavey Standup india Startup india Angel Tak Removed MIMZ Entre preneurship in course synabus

नहीं लिखना Candidates must not write on this margin

उम्मीदवारों को 'भूमि बैंक' अर्थव्यवस्था को प्रोत्साहन देने और भारत में व्यापार सुगमता (ईज ऑफ डूइंग बिज़नेस) को बढ़ावा इस हाशिए, में नहीं लिखना देने म<u>ें महत्व</u>पूर्ण भूमिका निभा सकते हैं। चर्चा कीजिए<u>। (उत्तर 150 शब्दों में</u> दें) Land banks can play a critical role in boosting the economy and promoting ease of doing Candidates must not business in India. Discuss. (Answer in 150 words) write on Land Banks are the new concept this margin under which government plans to part in idle lands and pet Productive mage . more tize Investory Jalo land Lease to private Land Banks & Bousting Economy & EODB 1 Tolle lands will be put to me he Industrial dove lapment usues will (2) topBay fland acquistion be herolized 14

3 Aust monetization - Leal value of land to be healized by government Candidates must not write on (4) Industries - Employment generation & leconomic growth this margin 6 Delays and Red Tapis in will decline in searchy land land
Corporate will find easy to invest Problem of Development - induced - displacement
will be solved (8) Teansparency due to bidding brocers Thus land banks well help in in Improving government fiscal capacity and also promote industrial development

15

वन संरक्षण अधिनियम (FCA) में प्रस्तावित संशोधन, न केवल वन अधिकार अधिनियम (FRA) के विपरीत हैं, बल्कि इनके कारण भारत को जलवायु परिवर्तन पर अपनी प्रतिबद्धताओं को प्राप्त करने में देरी होने की भी संभावना है। चर्चा कीजिए। (उत्तर 150 शब्दों में दें)

The proposed amendments to the Forest Conservation Act (FCA) are not only antithetical to the Forest Rights Act (FRA), but are also likely to delay India achieving its commitments on climate change. Discuss. (Answer in 150 words)

उम्मीदवारों को इस क्षशिए में नहीं लिखना चाहिए Candidates must not write on this margin

The Forest Conservation Act (1980) was brought with a aim to safeguard divided forest Kesewcol without gort Sanduries (2) that is non agriculture he to compensate for fewing the trees by doing afforestation elsewhere

Rela rations in provisions of FCA To Various Exemptions provided for Reserved & Various Enclustries, development weard, HEP

allowed inside forest
allowed inside forest

olefores fation can be done to land can be

reached even later Against FRA and Climate Change Commitments O Infringe upon Tibals right to land,

Community Ovenership, the rights (2006)

Community Ovenership, the rights (2006)

Community Ovenership, and needed (3) Paris INDES - (2-3) billion tonn of Courbon sequest exaction Born Challage - 26 mn her of degraded land restoration Au there amondments should be brought with public Consenses and Action Approach Negroteston

write on

शहरी क्षेत्रों में बाढ़ की समस्या न केवल नदियों के उफान के कारण है, बल्कि उन अनियोजित तरीकों के कारण भी है जो हमारे नगर, शहरीकरण की प्रक्रिया में अपना रहे हैं। चर्चा कीजिए। इस संदर्भ में, शहरी बाढ़ पर राष्ट्रीय आपदा प्रबंधन प्राधिकरण के दिशा-निर्देशों का उल्लेख कीजिए। (उत्तर 150 शब्दों में दें)

The problem of flooding in urban areas is not only due to overflowing rivers, but also the uninformed ways in which our cities are coping with urbanisation. Discuss. In this context, mention the National Disaster Management Authority guidelines on urban floods. (Answer in 150 words)

उम्मीदवारों को इस झशिए में नहीं लिखना चाहिए Candidates must not write on this margin

The usan flooding Securent phenomena in Inclien attes as the pressure of Urbanization (50% by 20 40) increases and simultaneously climate change also increasing O) Chennai floods (encochment on Wellard) Sweet glood Usban floods & Result of over flouring when sation

1) flegh fainfall during monsoon due to bracke weather & Convective heating

Der Som water drawn management in urban areas. Kneroachment of wetlands five floodplain encroahnet Solid Waste disposal not done properly Urbansation - deferestation - lack of water infiltration NDMA Guidelines 1 Disaster Rest Reduction (DRR) Hozard mapping Hay warny rystem Ruk analysis mitigation man - Structural 0 disaster & flood Revellent building 2 Invest in DRR -@ Relief and Rescue Non Structual & -> Building nomefallow Usban Governance 4) Reha keli fation streythers To, SDG11 3 Sustain able Côties -2
we recolto streng then Urban Jovernance

उम्मीदवारों को इस झशिए में नहीं लिखना चाहिए Candidates must not write on this margin इसरो अब केवल उपग्रहों के प्रक्षेपण तक ही सीमित नहीं है, बल्कि यह वर्षों से विकास गतिविधियों में अपनी भूमिक को लगातार बढ़ा रहा है। विवेचना कीजिए। (उत्तर 150 शब्दों में दें)

ISRO is no longer confined only to the launching of satellites, but it has been constantly enlarging its role in development activities over the years. Discuss. (Answer in 150 words)

उम्मीदवारों को इस झशिए,में नहीं लिखना चाहिए Candidates must not write on this margin

ISRO premier space Research organization Sate lite launching missions Cartosat NISAR with NASA IRNSS - nouvigalier

ASAT - anti satollite defence

INSAT - Communicalio Chandrafaam Mangal Jaan 15RD and deve lepment 5 chones in Svamitra Schume - mapping of land, guality Colucation (CUNNATI VIGPAAN 40 gara) scientists

- 4 Health L. Tele Health during COND
- E defence , GSATTA for navy and airforce
- @ IRNSS for navigation
- 9 GAGAN L. for fü herman
  Thus ISRO has shed off
  conventional role & integrating more in
  development

राज्य और गैर-राज्य अभिकर्ताओं द्वारा महत्वपूर्ण सूचना अवसंरचना (CII) को लक्षित करने के पीछे उत्तरदायी कारणों को बताइए। साथ ही, भारत सरकार द्वारा अपने CII को सुरक्षित करने के लिए उठाए गए कदमों पर भी चर्चा कीजिए। (उत्तर 150 शब्दों में दें)

State the reasons behind targeting of Critical Information Infrastructure (CII) by state and non-state actors. Also, discuss the steps taken by the Indian government to secure its CII. (Answer in 150 words)

उम्मीदवारों को इस क्षशिए≠में नहीं लिखना चाहिए Candidates must not write on this margin

Cutical information in fru structure (CII)

are those which are of great

Importance to country - National

Security & Strategie Assets Power

Why targetted?

Note and Security breach

O Confidential information

Country's Economy is sun on

them

House a spill over impact on other Sectors

उम्मीदवारों को इस हाशिए में नहीं लिखना चाहिए Candidates must not write on this margin

Measures Taken

NCIIPC under NTRO

NCIIPC under NTRO

National Cyber Security Folicy (2013)

That (2000)

Gyber Security Coll

Gyber Security Coll

Training

Paris Call for cylor Security

Linesus

पूर्वोत्तर भारत के रणनीतिक महत्व के बावजूद, इस क्षेत्र को कई सुरक्षा खतरों का सामना करना पड़ता है। चर्चा कीजिए। साथ ही, क्षेत्र में शांति और स्थिरता सुनिश्चित करने के लिए सरकार द्वारा उठाए गए कदमों का भी उल्लेख कीजिए। (उत्तर 150 शब्दों में दें)

Despite the strategic significance of North-East India, the region faces several security threats. Discuss. Also, state the measures taken by the government to ensure peace and stability in the region. (Answer in 150 words)

उम्मीदवारों को इस हाशिए में नहीं लिखना चाहिए Candidates must not write on this margin

North East india is a paraller Surplus (7) des (1) Gerstante gio Location Location Location Location The sound the 3 countries Security Threats - + athine Clarker ( Naga, Bodes L'Espain & Assam

Secons Ponim by Bodoland domand

Gorkhaland demand

Greater ragalimb

Chinese Chinese Extend meats demography Ammading Charge Steps Taken Le Recent Bodo Accord - Aperation Survise 7 Subjected Check Ports at border > Skill à Kuman Resource deve lapment BOLTGIT on border weith Banglades
Border fencing Deployment (Assam Rifles) - Peace by Schedule II granting autonomy

उम्मीदवारों को इस क्षशिए में नहीं लिखना चाहिए Candidates must not write on

this margin

भारतीय रेलवे को लंबे समय से अल्प निवेश की समस्या का सामना करना पड़ा है, जिसने इसके परिचालन के प्रमुख क्षेत्रों पर प्रतिकूल प्रभाव डाला है। इस संदर्भ में, बुनियादी ढांचे के तीव्र निर्माण में रेलवे के समक्ष आने वाली चुनौतियों पर चर्चा कीजिए। साथ ही, इस संबंध में सरकार द्वारा उठाए गए कदमों का भी उल्लेख कीजिए। (उत्तर 250 शब्दों में दें)

उम्मीदवारों को

इस हाशिए ने

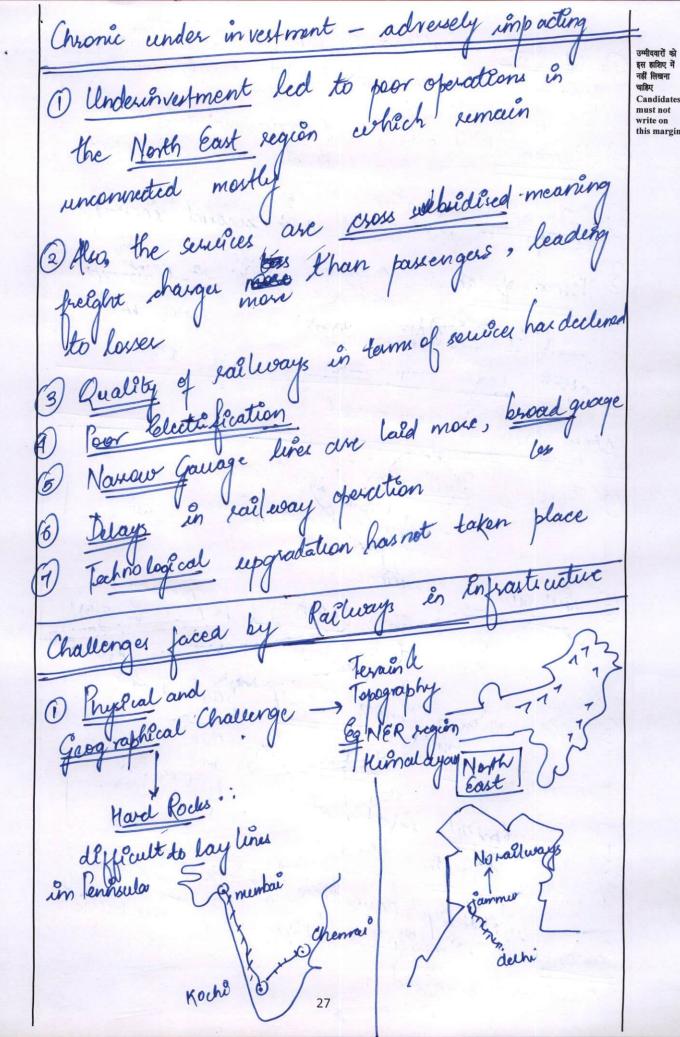
नहीं लिखना चाडिए

Candidates must not

write on this margin

Indian Railways has suffered from chronic under-investment, which has adversely impacted key areas of its operations. In this context, discuss the challenges faced by the railways in speedy creation of infrastructure. Also, mention the steps taken by the government in this regard. (Answer in 250 words)

Railways in India are the second largest in terms of their coverages with a serving upto (50,-60,000) km a succer long lines and upto every nook and corner of the Koucata



leading to poor investment excultion 3 Human Skilli low: Human infrasti witure Technological penetration & low Lold & obsolote technology Tonly secently allowed in train running Private Sector but not operations Steps Taken by government O Talks of <u>Reutization</u> of railways

L Nande Bharat Express

Trijan Express dutsouring operations Eg: [IRETC] performing Letter. (3) The Exploring Public private partnership in railways - (Kellar Committee) (4) luhnological investment Economy be it agriculture, passarger. Thus public Erwest ment required

उम्मीदवारों को इस हाशिए में नहीं लिखना चाहिए Candidates must not write on this margin किसानों की आय को दोगुना करने के भारत के उद्देश्य को साकार करने हेतु कृषि प्रणाली के अंतिम बिंदु तक के दायित्वों पर ध्यान देने के साथ अनुसंधान और विकास (R&D) के लिए एक परिवर्तनकारी दृष्टिकोण आवश्यक है। विवेचना कीजिए। (उत्तर 250 शब्दों में दें)

A disruptive approach to research & development (R&D), with a focus on last mile obligations of the agricultural system is necessary to realize India's objective of doubling farmer's income. Discuss. (Answer in 250 words)

उम्मीदवारों को इस झशिए में नझीं लिखना चाहिए Candidates must not write on this margin

According to Ashok daluai Committee India has a larget of toubling farming Incomer by 2022 for which we need a squiculture unolution in terms - Rescoucha development - connectivil Dissuptive approach to Research & development Knishi Vigyan Kendras - Bruran, Chaman satelletu in aid of farmed Rosearch model N:P:K:: 4:2:13 L. Excedor L. Certified Varidy

Age of disruptive tuhnologies for data on monsoon & (lig: AP wing blockchain) information Odiseminto. (1) RXD in agriculture Pedorgenesia Study
Sciences Type University ICAR TAMU · Sepa bean Research (B) (K+D) in processes Largation: Springle to in crease Efficiency L Processon agribulture Along with disruptine (RXD), there is a need to focus on last mile obligation of agricultural System -

उम्मीदवारों को इस हाशिए में नहीं लिखना चाहिए Candidates must not write on this margin

Mandi, Freis
fo be created in Last mile systems developed established begation (Eq. a Railways KRISHI Rail KRISHI HOAN)

Food procoung industry

Apart from these beforms, focus on ->

I, Aparculture Mechanization Lead to

Morticulture

Organio Gosiculture

Cernate Smart Agri

Gort Steps Like: PM - Krishi Linchayee yojana

Food processing: Sam pada Scheme

are Right Steps

भारत की विद्युत वितरण कंपनियों और विद्युर्ते ग्रिड को जीवाश्म ईंधन से अक्षय ऊर्जा के अधिक संधारणीय रूपों में संक्रमण हेतु सुधारों से गुजरना होगा। चर्चा कीजिए। (उत्तर 250 शब्दों में दें)

India's power distribution companies and electrical grids must undergo reforms to transition from fossil fuels to more sustainable forms of renewable energy. Discuss. (Answer in 250 words) 15

नहीं लिखना चाहिए Candidates must not write on this margin

उम्मीद्भवारों को इस हाशिए में

Indicis Power Detribution Companies (DISCOMS)

are already realing under pressure and dobt (Ministry of power) due to poor effectuacy, (Art) losses and lack of new technology.

Thus need of reforms in Discoms and pride from Coal (famil fuel) to Cenewable gride from Coal (famil fuel) to Cenewable

Reforms Needed in Discoms and El.

Renewable Purchase Obligations (RPD)

must be strictly followed

L. 20% mandatory

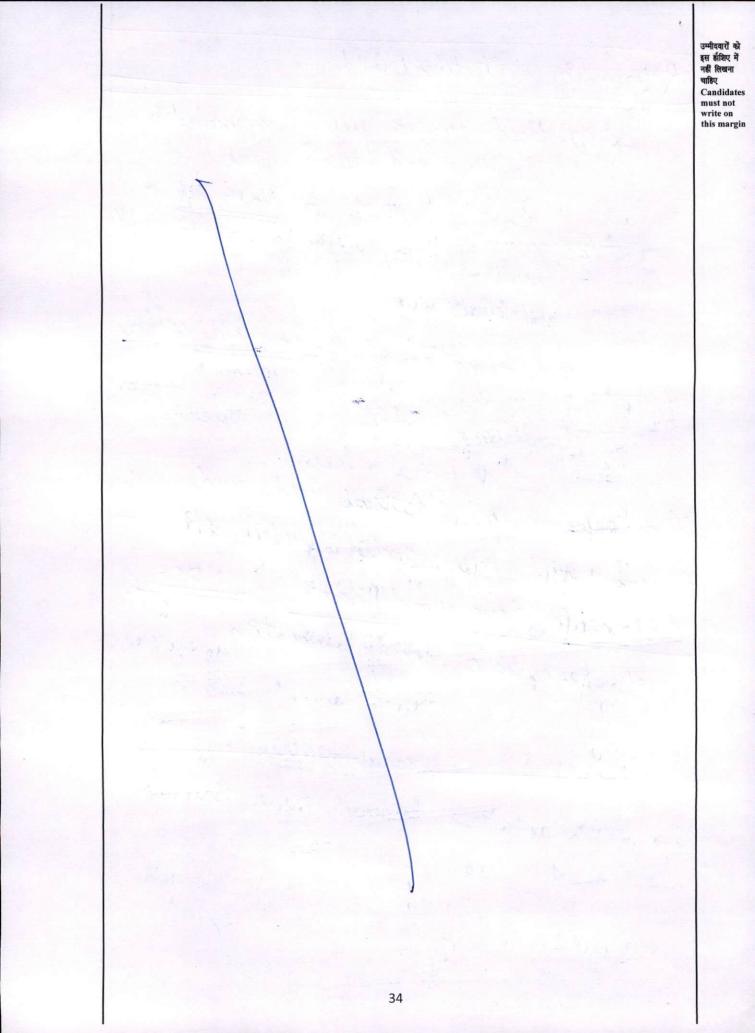
Buy more from Renewable Generation

Reforms like: UDAY Scheme to

take over their debt

L. 4 Smoot Metering 3 and Net Metering

Reform in Electrical Grid Candidates + @ Need to be projerly managed to handle load during peak hours. must not \* 2 Grid connectivity to North East must be improved, as high renewable petential \* 3 Integration of Green Grid with traditional grid. The Reforms or Electhral Gold and buffer its discome will help India furfire its Sustainable development goals LINDO'S of Renewable Energy generation



भारत में आगत-सघन (इनपुट इंटेंसिव) कृषि की प्रथा में, इसकी अस्थिरता और नकारात्मक परिणामों के कारण, बृहद पैमाने पर बदलाव की आवश्यकता है। इस संदर्भ में, निम्न बाह्य आगत संधारणीय कृषि (LEISA) के महत्व पर चर्चा कीजिए। (उत्तर 250 शब्दों में दें)

The practice of input-intensive agriculture in India needs a massive overhaul due to its unsustainability and negative consequences. In this context, discuss the significance of Low External Input Sustainable Agriculture (LEISA). (Answer in 250 words)

उम्मीदवारों को इस हाशिए में नहीं लिखना चाहिए Candidates must not write on this margin

Agriculture in India & characterised by being input intensive ] i es high focus and subsidier on Enpet sêde. Input Intensive agriculture -> Unsus tainable : Alybrid Variety Seeds, Breedork Terrinator Seeds Lower : Power Subridy I rigation: Irrigation subidy - largest wer credit: - Previty Sector lending in agricultus Export Subsidy to farmers around 40,000 or support As a secuet agriculture becomes input inteneure and negative consequences like of Groundwater depletion Sall salinization lagging

reghyingut defleting to was Confarinalo Input intensive agriculture Significance of Low External Input Sustainable agréculture (LEISA) Low est LEISHA - hefens to the tens Enpet intensire agriculture notical ways to do agriculture to make it Bustainable

इस इस्त्रीए में नहीं लिखना चाहिए Candidates must not write on this margin

load of Environment water lives
degradation due to make ZONF / - les tillage outs de med Osganis LEISHA farming bis perthider & Sufertilises Technologies like Climate Smout Precision og authore to Double farmer income drip & sprinkler government to apart from LEISHA more sustainable has make agriculture focusing on Clomate Smart Agri Culture Evergreen Rovolution (20)

नहीं लिखना

Candidates must not write on

this margin

The recently released IPCC Sixth Assessment Report (AR6) – 202) has been deemed as 'code red' for humanity. In this context, discuss the various concerns raised in the report with special focus on India. Also, enlist the remedial measures given by the report. (Answer in 250 words) 15

The IPCC VITAR (2021) - marks a code sed for humanity highlighting the various dangers àcross glabe 1 World how already crossed 1.2°C.
Temperature in crease Dea Levels have when by (4-8) and since pre in dust wal times By 2100, at this pace mon than 2°C would be breached Wild feres Heatwares 7777 desertification COBSE RED

उम्मीदवारों को इस फ्राशिए में नहीं लिखना चाहिए Candidates must not write on this margin

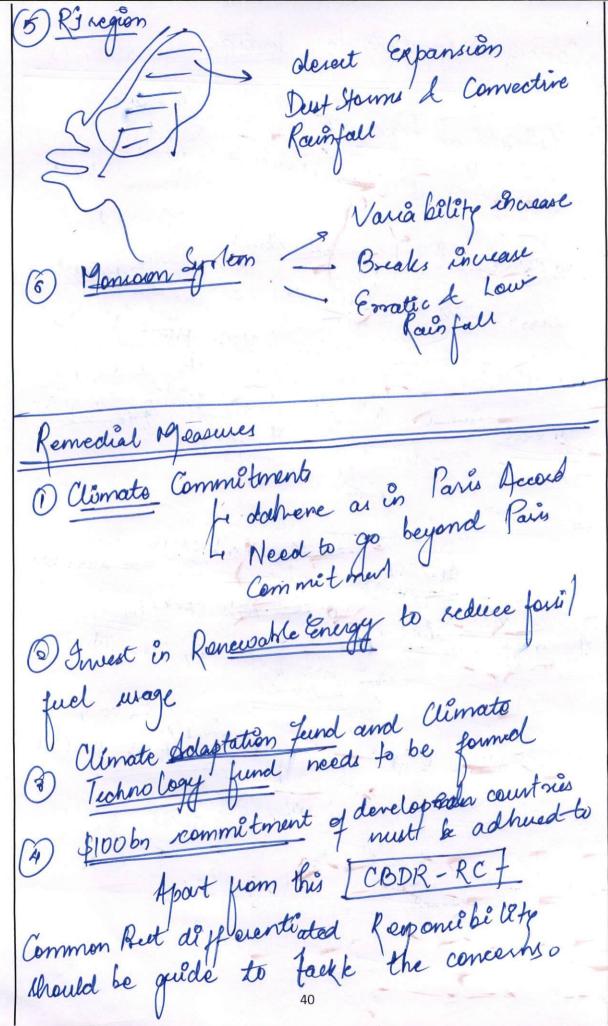
Concerns Specific to O Himalayan Region -Mispar Meting Glacier & Glacial Lake

Meting Glacier & Clathurt floods More Temperature rise
La Transhumance
affected

Cloud Bussts (29: forest and bidivesity 1) + flood in Brohmapeton More Coastal Persuon More frequency of broughts

Meat hlares More Cyclones (Gulah, Fani) Erratic Rainfall Coastal trosion

उम्मीदवारों को इस झशिए में नहीं लिखना चाहिए Candidates must not write on this margin



इस 'हाशिए में नहीं लिखना Candidates

write on

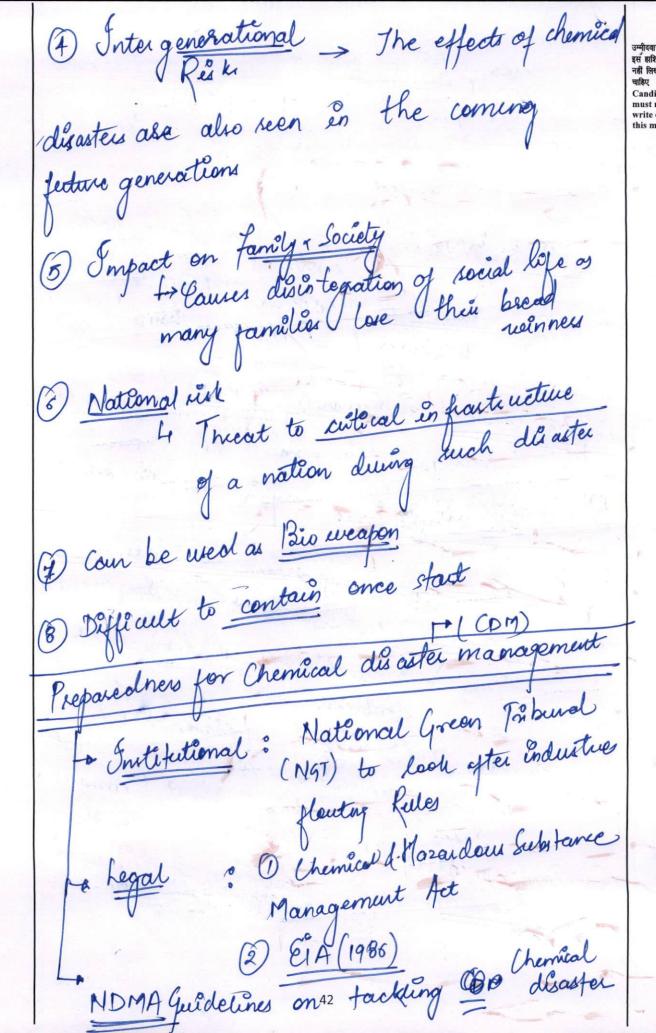
भोपाल गैस त्रासदी से लेकर विशाखापत्तनम में गैस रिसाव तक कई रासायनिक आपदाओं ने भारत में खतरनाक रसायनों (HAZCHEM) द्वारा उत्पन्न जोखिमों को ध्यान में लाया है। इसके दृष्टिगत, भारत में रासायनिक आपदा प्रबंधन (CDM) की तैयारियों के साथ-साथ इसमें व्याप्त किमयों की भी विवेचना कीजिए। (उत्तर 250 शब्दों में दें)

Multiple chemical disasters from the Bhopal gas tragedy to gas leak in Visakhapatnam have brought into focus the risks posed by hazardous chemicals (HAZCHEM) in India. In view of this, discuss the preparedness as well as gaps in Chemical Disaster Management (CDM) in India. (Answer in 250 words)

Chemical disasters in India have had as huge loss of lives of human-animals and what makes them more grave & the Entergenerational and intragenerational enequity that they course by thousing side effects
is corning pears as well Risk pould by Chemical disasters Human Lives: Bhapal Gas Treighby 12 lled around (20-30) thoward
People De Animal life: Many animals. buds,

livestock love their habitats

Livestock love their habitats (5) Envisonment and : Ecouptem is disturbed Ecouptem



\* Principle of Solluter Pays 3 I The burden of compensation of cuould be on the industry accused must not write on this margin La Point of controlling the export, buying of Chemical & Biological weaponry (BWC) convention · International Gaps in Indias Preparation for CDM No disaster vulnerable areas mapping has not been

Hozard Zonation mapping has not been

Coveried out Strong regulatory framework needed to Johan industries flocuting sules. The rules under CDM Act need Revoue d'Relief operations need well to be managed ministerial coordinate forter agency and ministerial coordinate & weak Ferm Jeeds a Strong dery for long

महामारी के समय सार्वजनिक स्वास्थ्य से संबंधित वस्तुओं और सेवाओं के उदारीकरण की बढ़ती मांग ने वर्तमान बौद्धिक संपदा व्यवस्था के संबंध में महत्वपूर्ण मुद्दों को उठाया है। विवेचना कीजिए। (उत्तर 250 शब्दों में दें) The growing demand for liberalisation of public health-related goods and services amidst the pandemic has raised critical issues with regard to the current intellectual property regime. Discuss. (Answer in 250 words)

इस हाशिए में नहीं लिखना चाहिए Candidates must not write on this margin

उम्मीदवारों को

The COVID pandemic how created a ethical delemma over whether to protect the Intellectual property rights (IPR) of in monation who developed dugs, vaccines er give the benefits to all and liberalise fublic health goods & services. Growing demand for Public Health liberalisation O To improve Accessibility, Affordability Quality of health Care 3) Technological penetration in health core will lead to explorer effects is different industries and domains (3) It will drive up <u>Social indication</u> eclated to Infant & Vaternal mortality

A Will Could Det of pocket expenditure of the common man and reduce the poverty levels. must not write on this margin (5) Buing about Intergenerational Equity and Inclusive development Entical une of IPR and liberalisation Deberalisation of health carer wall be achieved by Compulsary licensing (CL) 2) This will compromise the <u>innovation</u> and morale of lessearche will decline to the industry will decline to 4) future research and in noration well 5) It might also bad to more showing of technology.

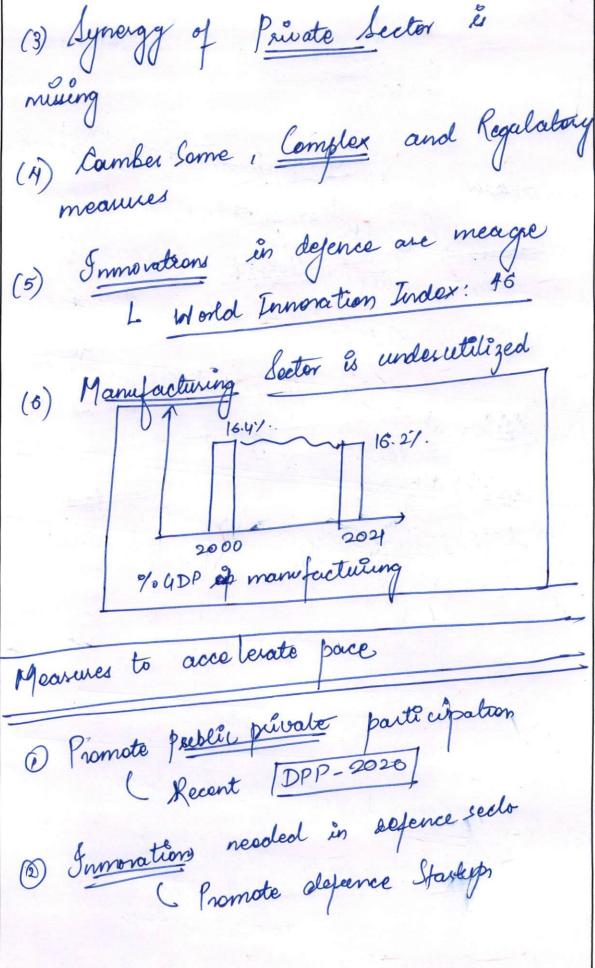
Thus, the growing demand for liberatisation of sublice health goods उम्मीदवारों को compromises and contravenes the objectives under IPR regime. Way forward: Towards a more Equitable @ Countries can Enroke Compulsary licensing in issue of fublic health Emergary
Eg- Frolia en case of Glèree
Cancer drug Deshare of early - still goes to the 3 It will help in Trickling down the benefits to all the LOC's who comnot spend a - expensive health come system fatent feoducer This will help in ensuing SDG-3 selated to Healthy life and Wellberry Enoralism

भारत में रक्षा प्रौद्योगिकियों के स्वदेशीकरण में उप-इष्टतम परिणामों के लिए उत्तरदायी कारणों पर प्रकाश डालते हुए, उन उपायों का सुझाव दीजिए जो रक्षा क्षेत्र में स्वदेशीकरण की गति को तीव्र कर सकते हैं। (उत्तर 250 शब्दों में दें)

Highlighting the reasons behind suboptimal results in indigenization of defence technologies in India, suggest measures which can accelerate the pace of indigenization in the defence sector. (Answer in 250 words)

उम्मीदवारों को इस क्षशिए में नहीं लिखना चाहिए Candidates must not write on this margin

India has recently launched its Defence Procurement Policy (2018) - where in the private sector participation à also committed in trategic rector leve-defence, anne Reasons for subostimal results in indigenization of defence technology (1) Poor Research and Development 909DPon BAD) Track Ind China (2) Poor Skills de low human serource dove lepement La only 4% slettled v/s 96% in S. Korea



3 Freeze Envertment, funding in defence (3) Reduce the Regulator Chokestrol, Real fagusin Seill needs to imparted

Mession Shier train

PM- Kaushal Vilas Pagana. 6 Technologe Transfer from foreign nation (a) Institutions like MISRO and DRADO need to take a lead industry - academia linkage.

(a) Develop industry - academia Defence is India' meals to be indigenously competitive.

उम्मीदवारों को इस हाशिए में नहीं लिखना चाहिए Candidates must not write on अंतर्राष्ट्रीय सीमाओं की रक्षा के लिए विभिन्न केंद्रीय सशस्त्र पुलिस बलों की अवधारणा के पीछे के कारकों पर चर्चा कीजिए। साथ ही, भारत की सुरक्षा सुनिश्चित करने में इन बलों के योगदान पर भी प्रकाश डालिए। (उत्तर 250 शब्दों में दें)

Discuss the factors behind conceptualization of different Central Armed Police Forces for guarding the international borders. Also, highlight the contribution of these forces in ensuring

Central Armed police forces (CAPF)

Central Armed police forces (CAPF)

Cume with an intention to guard

Endin w.r.t external as well intend

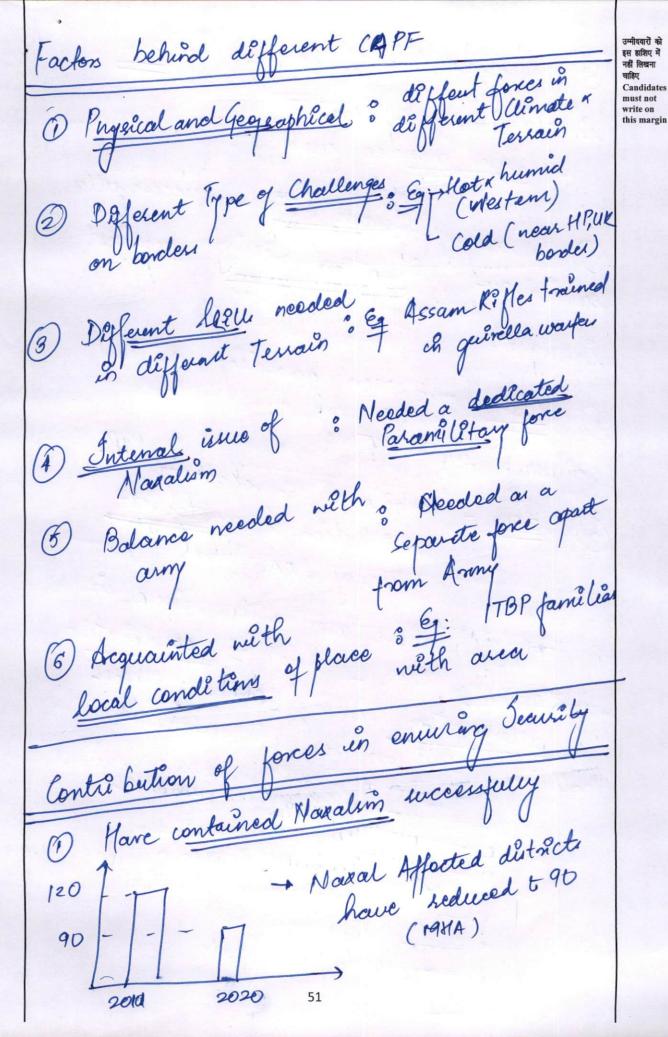
threats CAPF Testernal Rifley

CRPF

CISF (metwork) Assam Rifles Tibet BSF Assam (myanna) Rixles SSB (Bay lader 50

इस हाशिए में नहीं लिखना चाहिए Candidates must not write on this margin

उम्मीदवारों को



(2) Safeguarding of borders by BSF in Pakistan infiltration Leug menace curb 3 In case of fisam fiftes - auccess fully carried out of ferention speing against (2) CISF house been guarding cuitical Roulway infrastructure

Roulway infrastructure

wige lant in checking the

wige lant in checking the

infollowing from Nepal

currency from Nepal

currency from Nepal

currency from Nepal Though there are various issues in functioning the - Lack of condination L'allaboration among forces, proper training. This can be achieved many fraining. Security & Border menager Security t Boder menagement

E Cooperation Capabellety

Language Surveller

Regional integrals

A Intelligence It Technological Shall - gouth participal

उम्मीदवारों व इस हाशिए नहीं लिखना चाहिए Candida must not धन शोधन (मनी लॉन्ड्रिंग) गतिविधियों के लिए आभासी परिसंपत्तियों के दुरुपयोग के संदर्भ में, उनकी सुभेद्यता पर चर्चा कीजिए। साथ ही, उन सुधारात्मक उपायों का भी उल्लेख कीजिए, जो आभासी परिसंपत्तियों के उपयोग से उत्पन्न जोखिमों को कम करने के लिए अपनाए जा सकते हैं। (उत्तर 250 शब्दों में दें)

0.

Discuss the vulnerability of virtual assets in terms of their misuse for money laundering activities. Also, state corrective measures that can be taken to mitigate the risks posed by the use of virtual assets. (Answer in 250 words)

Money Laindering is defined as the process wherein the illegal money generated from source of charge trafficting, arms smuggling & made to be enter economic through legitimade means Procement Turat Adirity Reentegeation 4 Money laundering Vulnerablity of Virtuer assets Virtual assets are there assets that not physically present in an area In terms of misusing the virtual dark web, assets like - computer, their rul nerabitity is quite high

(2) They can be used to carry out Various Cyber Crime · Malwail Cyber Espionage
Cyber Trojan

Ransonneau

Warfare

VIRTURE asset 1 VIRTUAL asset ] to gainer monies for laundeuring (4) Virtual firsts can also include

the citacel insparts nature of a country

threat san be targetted Mitigation Measures to decrease Risk Legal measures

Pherentian of money

[PM14] - 2002

launders

Legal measures

launders

Legal measures

launders

Legal measures

Legal measur L Benami Property Fransactions

Fet - International - FATF | ML framework BEPS- OECD base foreduce base

, उम्मीदवारों इस हाशिए नहीं लिखन चाहिए

चाहए Candid must ne write o

Foliy measures: TAA - tax avoidance

agreements + POEM - place of effective management Money laundering poses a risk of \$ 106m economically, also associated with due and ams trafficking hence needs to be shicked.

इस क्षशिए में नहीं लिखना चाहिए Candidates must not write on this margin