

C'VISIONIAS INSPIRING INNOVATION ABETVAAS 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 QCA Booklet.

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

पंजीकरण सं./Registration No.

680214

अभ्यर्थी का नाम/Name of Student : AKSHAY

PILLAY

सामान्य अध्ययन (प्रश्न पत्र-III) GENERAL STUDIES (Paper III) माध्यम: हिंदी/अंग्रेजी Medium: Hindi/English

ENG-LESH

तारीख Date

19-12-2021

केंद्र Centre

RATPUR

Mahr

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	 (क) अपना पंजीकरण सं. एवं अन्य विवरण केवल प्रश्न- सह-उत्तर पुस्तिका में उम्मीदवार के लिए निर्धारित स्थान पर ही लिखें। (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। 	 (a) Write your Registration Number and other details only in the space provided in the Question-Cum-Answer (QCA) Booklet for candidates. (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
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 अनधिकृत 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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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		1	13		
4	6		14		
5			15		
6			16		
7			17		
8			18		
9			19		
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उप-योग (A) Subtotal (A)			उप-योग (B) Subtotal (B)	s especial special spe	
	 योग (A+B) / GRAN	D TOTAL (A			42.42



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)

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

Agricultural extension is the process of providing informal advice to farmore so they can improve the crapping pattern, farming methods and input

usage.

viollems with agricultural extension

" Reach - Doly 60% formers have access to extension sources.

2. Duality of extension services provided is an issue.

3. Shortage of extension workers in sureal access and remote regions.

4. Lack of goo district Senal weather forecasts to supplement advise given by extension workers.

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

- Role of Wishi Kigyan Kendras

 1. They have agricultural scientists who directly reach out to farmers.
- 2. KVKs provide bulletine to farmers, for making informed decisions on corop selection.
- 3. KVKs are playing a key role in implementing Gil Health and scheme to correct imbalance in fertilizer usage in India.

40% of Indian population is engaged in agriculture. It is necessary to streamline delinery of extension services, to uplift farmers.

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)

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

process of twining naw food material into food products for through mechanical and chemical means.

His It is a high growth and he see High growth in food processing sector is

I to a large producer of fruits and vegetables, cereals, oilseeds and pulses.

- 2) Romestic Demand Andia hos an expanding middle class with high pwichasing power.
- 3) Export pe Muclear families where both parents work have irreased demand for processed food.
- 4) Export potential Foreign, h Health considues foreigners desire healthy products.

Every is a high profit sector because of:

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

i) significant value addition at every stage

eg [wheat] > Wheat | Biscits

- 2) Earmors get higher prices for familes and vegetables than cereals.
- 3) Exceigners and Indians are willing to pay the premium prices for certain products ag gluten free.

4) there is scope for eliminating middlemen by adopting contract form farining.

Inputs

Exemer

Potatoes

of high quality

India targets doubling faremers income by 2022. Food processing can help achieve this, and create enough jobs to end poverty (Sustainable Development Goals).

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

Explaining the concept of livestock-based Integrated Farming System (IFS), discuss its benefits. (Answer in 150 words)

brings together crop cultivation, fisheries, linestock rearing and agroforestry to benefit farmer.

Linestock based IFS

- 1. Earmen cultivates orop and raises livestock simultaneously.
- 2. Livestock provide manure (cowdung) for farm.
- 3. Linestock production rearing cultivates complements agricultural activity.

Benefits of linestock based IFS

1. Denersification of former encome og celling

milk to savry ecoperatine.

2. It is an inswarce spainet failure

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

of crop failure eg deveing derought.

3. Availability of milk inoceases nutritional
securities for families of small and medium
formers.

- 4. Use of organic fertilizer reduces adverse impact of farming on soil, water and coop quality.
- 5. Livestock based IFS can be used to witch to zero Budget Natural Earming.

 6. Livestock used as drought animals.

According to NABARD All Endia Rwal Einancial Inclusion Survey, ranguage income of an agricultural household is barely ₹9000 per month. Linestock based Its can provide income seavity to farmers. 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 गित को बढ़ाने के लिए उठाए गए नीतिगत उपायों का भी उल्लेख कीजिए। (उत्तर 150 शब्दों में दें)

4.

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)

Several Indian sorigin persons are now (EOs of global technology giants like Satya Nadella and Sundar Pichai However India lags in entrepreneurship viates due to several reasons like:

- 1. Low literacy eg in Eastern India, where new form coreation reate is also lowest.
- 2. Lack of ease of doing business eg registering a firm, enforcing contracts.
- 3. Over-regulation It requires 4 licenses to start a restaurant in Sirjapore, against 20 in Andia.
- 4. Startups are questioned once langel in funding provided by angel innestors. Angel tax was imposed earlier.
- 5. Lack of incubation good transport connectivity

. that can reduce logistics cost. Policy measures taken to correct this are; 1. Startup India Sheme offering numerous benefits eg ex 100 / exemption from income tax and corporation tax for 3 of the first 10 years a form is operational 2. Revised definition of startup to one with twinover below 7100 owne and incorporated for less than 10 years. 3. <u>Easierexit</u> - Startup can be wound up in 90 4. Augmenting inaubator network by introducing Atal Ennovation Mission 5. Technical relaxations to startups regarding) Angel tax 2) llse of EsoPs to attract employees. startups are growth engines of economy. They help youth become job givers and thus igonernments'efforts to help them are much needed.

उम्मीदवारों की इस हाशिए में नहीं लिखना चाहिए Candidates must not write on this margin 'भूमि बैंक' अर्थव्यवस्था को प्रोत्साहन देने और भारत में व्यापार सुगमता (ईज ऑफ डूइंग बिज़नेस) को बढ़ावा देने में महत्वपूर्ण भूमिका निभा सकते हैं। चर्चा कीजिए। (उत्तर 150 शब्दों में दें)

'Land banks' can play a critical role in boosting the economy and promoting ease of doing business in India. Discuss. (Answer in 150 words)

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

land lanks are blocks of lands that are accumulated by the centresor state government. They are used to allot land to industry later.

Rand banks and economic growth

Delayed land ocquisation is a key hurdle to
ease of doing business in India.

2. Risputes occur over displacement of people and compensation payable.

3. Mijamgvie hills - Vedanta struggled to acquire this land since it was in a Eifth Schedule Area and local community opposed it

4. Relayed land Delayed project Non Renforming Asset origin

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

Thus speed land banks can resolve the Twin Balance Sheet visits and unleash animal spoints in economy.

5. Land banks will help a India attoract from relocating from thina. This will sid the Vehaped recovery from COVED.

6. Land banks can help in case of transformatine projects og Mumbai-Ahmedabad righ Speed Rail.

therefore oceation of land branks will seemore a brottleneck to industrial growth Make in India will secure a loost. Myent steps are needed to oceate land branks.

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)

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

the Forest Conservation

Act, 1980 aimed to increase forest conver of

the nation and prevents imposes restrictions

on dinersion of forest land for non

forest use.

Peroposed amendments to FCA are:

- for development purpose.
- Jofficials 2. Evrest guards will be given greater pouvers , including right to use fixearms.
- 3. Averest of any forest dweller suspected of committing or abetting any crime.
- 4. louvate sector will play an enhanced role in afforcestation.

These amendments lead to the

following concerns:

Notation of sight granted under Except

Rights Act eg sight to land title (for

pereonally cultivated land) that is permanent

and inheritable.

2. It affects the ability of toubal communities to der conserve and manage forest resources.

3. Threat to life of forest dwellers, if forearms are used.

4. Forest cover may fall the will affect the n

Intended Nationally Determined the committeent

ENOX) of creating carlon sink (2.5-3 billion

tons of (O_2) through afforestation. Except conex is vital for the

linelihood, as well as cultival heritage of toutal forest dwellers. It is also linked to international committeents. Thus the proposed international committeents . Thus the proposed amendments should be discussed extractively with sufficient public porticipation.

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

नहीं लिखना चाहिए Candidates must not write on this margin

शहरी क्षेत्रों में बाढ़ की समस्या न केवल निदयों 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)

33/ of Indian population lines in whan sities. Of late, the mega sities are more vulnerable to floods of Chennai (2015), Hyderabad (2019).

Urbanisation is regesting ratural contours of the land this difficult for water to brain away easily.

2. P Stormwater drainage infrastructure is weak due to lack of funds.

3. Enowachment on wetlands is depriving aties of buffer against floods.

4. Convictisation of cities occurres infiltration of water into ground.

NDMA quidelines on wilan floods 1. Early Warning System must be strengthened; 2. Implementing zoning regulations sincerely. No construction should be permitted in flood prone 3. Am ending model building bye laws to ensure flood resistant houses are built. 4. Capacity building of local community so they manage flood shelters 5. Raising and training State Risaster Response
Eorce Dattalions for effectine ocessure. Natural disasters not the poor of their assets and savings. Youvernments bear owiden of rehabilitation. Herefore wiban floods should be addressed on war footing

इस हाशिए में नहीं लिखना

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 भूमिका 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)

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

the M50s as the spearhead of the Indian space program. In recent years, it has played a multifacted role for development.

- 1. Islacon Browiding Droadband connectivity to remote areas eg T4K, North East.

 This spurs economic growth.
- 2. Increasing access to tele-education and tele-medicine eg through OSATII.
- 3. Agriculture ISRO satellites provide more accurate weather forecasts at block level.

 Project CHAMAN utilizes remote sensing to inoclase productivity of horticulture.
- 4. Disseter Management ISRO satellites enable monitoring of floods and eyelones to provide early warning.

5. IRNSS NAVIC system deployed by ISRO to aid sevial, towestrial and marine ravigation and towns

6. Effective development occlies on consovering vatural resources. Thus ISRO has laurched TRS series of sateleites to map forests, water and wetlands.

7. ISRO has enabled continuation of education during pardenuic by providing Rivert to Home (DTH) services of SWAYAM PRABHA educational program.

and efficiency. It has demonstrated that the Endian space program focuses on human the Endian space program focuses on human development, and not military superiority

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 nonstate actors. Also, discuss the steps taken by the Indian government to secure its CII. (Answer in 150 words)

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

उम्मीदवारों को

critical Information Infrastructure is that which is vital and rational for the domestic economy

reasons for targeting CII

1. It is more cost effective than conventional

war.

2. Affected ration may not be able to identify sulprit.

3. Terrorist groups can impact a much larger number of people, than by one twitte suicide bomber/lone nolf stack

ef descripting banking system, hyacking

electricity good.

steps taken by forcomment.

1. Creation of National Critical Infrastructure Protection centre 2. Establishing Computer Energy Response Jean -Andia (CERT- In) for rapid response to sayler attacks 3. Moordinating activities of different lodies through National Cylier crime Coordination Central NCCC) 4. Mandating appearsonity audits of critical

infrastructure.

5. Indigenisation of telecom equipment eg Chinese equipment les been barned.

critical infrastructure like

financial system, transport and deferce systems wital for the integrety of the ration. Their the steps takenly government are commendable.

Candidates must not write on this margin

उम्मीदवारों को नहीं लिखना

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)

North East India due

to its historical background and geographical location faces a variety of security threats. These threats have existed, in varying forms, since independence.

Seavity threats in Northeast India

Insurgery - Insurgent groups are a tire in

Assam, Maripur, Nagaland. They deman have

varying demands, from autonomy to secession.

- 2. Drug Brafficking This region is close to Yelden Triangle of Southeast Asia
- 3. <u>Arms traffiching</u> Answigent groups profit from gun running.
- 4. Extertion : kidnapping for ransom and lilling gonernment severants/politicians are common

og Assam Rifles Convoy ambushed in Manipur Government of India has taken following steps: 1) Security fount · Brecise operations against inswigents whe with well trained troops and redible inputs. . Cooperating with Myanmar and Bangladesh · Draining troops in jurglewarfare. 2) Development front Infrastructure oceation eg SARDP NE for road construction in North East Region (NER) . Special day Fund for NER, to oceate social and physical infrastructure · Northeast Industrial Development Scheme -Incentines are offered to industry. . Northeast BPO scheme for job relation. The efforts to sign peace deals with insurgents in regulard and beigure show government is committed to

Candidates

write on this margin

peace in Northeast India

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)

11.

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)

Andian Railways is a eifeline of the nation. It provides affordable transport to poor passengers and covies 40% of fright traffic. challenges in infrastructure oceation 1. Lack of budgetary support - government is facing fiscal deficit constraints. Railways is thus suffering from shortage of funds of samuely thus suffering from shortage of funds of samuely 2. Low profitability - Sperating ratio is 96%.—
Railways loses 96 paise for energy rupee larned,
due to operating expenses. . It sannot self finance infrastructure building. 3. Hwidles to land acquisition - Due to environmental activism and fear of diplacement, Mumbai - thmedabad

this margin

High Speed Rail is held up.

- 4. Relayed approval of infrastruction projects.
- 5. Dwing to social welfare role of Railways, sope for private innextment is limited.

steps takenby gonernment

- 1. Monatisation of railway assets like vacant land, to raise funds.
- 2. National Infrastructure Repeline will mobilize innestments of 7111 lakh orose (2019-2024)
- (2019-2024).

 Railways will get a significant shunk of this.
- 3. Bisinvestment of non profitable scielway
 PSUs eg RA IRCON, Railfel. It will
 augment funding for infrastructure oceation
- 4. Reforms to the Eastern and Western

 Addicated Bright coordors are being funded portly by for Japan and

multilatoral development banks like World

Bank.

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

5. Reforms to make Railways more profitable

5. Reforms to make Railways more profitable

5. Reforms to make Railway Board into

Schowing private private private train operators on elected

2) Allowing private train operators on elected

routes., with real Railways reaseving a fee.

A well developed Railway

network is ourial for economic Ignouth.

The steps taken by government of India

in this regard are praiseworthy.

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

Agriculture sector requires robust RAD to improve linelihoods, by raising yields and quality. Therefore there is a reed for the following measures: 1. Liberalising salary structures and promotion contina of research institutions like Andian Council for Agricultural Research. 2 Performance based promotion and competitive pay packages will help reverse brain drain of ogricultural scientists. 3. & Increasing funding for spro RAD 4. Innolving private sector in a spicultival research thorough collaborations and joint projects.

5. Agricultural universities here mushroomed recently, but quality has declined.

• so instead of approving new institutions, infrastructure and pedagogy in existing college should be improved.

6. Two agricultural unineristies should be given sufficient funding to become world class, with high research output.

7. Focus of agro RAD needs to shift:

-) Evon weals to fauits, negetables, pulses and oilseeds.
- 2) Evom purely increasing yields to improving shelf life, texture and taste
- 3) Enswing drought, heat and salinity resistance to address the impact of dimate shange.
 - 8. Andia has comparatinely few agrick to startups. Thus more incubators

उम्मीदवारों को इस हाशिए में नहीं लिखना चाहिए Candidates must not write on this margin mentoring and handholding are needed to reverse this trend.

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

Sustainable Revelopment Goal

2 2000 mandates doubling income of

Smallholder formers by 2000. Agric RID is a

viable tool to adview the same. Thus reforming

RID in this sector should be taken up on

perovity basis.

हिंपा में सक्रमण हतु सुधारा सं गुजरना होगा। चचा काजिए। (उत्तर 250 शब्दा में द)
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)

Andia has an energy mix that is heavily tilted towards fossil fuels. During to the threat of climate sharps and international obligations, thanks and international obligations, and is moving towards renewable energy (EE)

Andia is adopting RE in order to:

Neat committeents made under Pavis

Agreement.

2) Eulfil obligations made at glasgow COP
of UNFICE eg. 50% of installed energy
capity will be from renewables, by 2030.

500 CW of reinewable energy capity by 2030

3) Reduce global warming and climate charge, that are adversely impacting Andian populace.

4) removing bruden of coal import and

associated risk of high wovent Account
Deficit.

5) Addressing regative externalities of foral fuel use-like air pollution.

Reforms needed in power companies and electrical guide aire:

- I Research and Renelopment (R 4D) to denelop storage capacity for intermittent sources of energy (solar and wind).
- 2) Technological upgradation of grids to Caddress statulity issues. Further integration of renewables with thermal power is needed.
- 3) Integration of all fine regional grids to address sarrity of power in any region.
- 1) DISCOMS must implement net metering (to tap scenewable energy generated by

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

5) Inoceasing ferancial viability of DISCOTE

through Installation of smoot meters

Financial Riscyline Monsumers). 6) Pouvatisation of DISCOMS can be tried of a pilot measure to ensure inoceased efficiency and professionalism. in strengthening distribution infrastructure to Reduce losses Access to electricity is a preorequiite for human development. SDO-7 seeks universal access to affordable and sustainable energy. Reforming DISOMs and power goids will help significantly

इस हाशिए में

Candidates must not write on this margin 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

the green Benolection

catalysed heavy use of chemical fertilizers

perticides, herbicides, as well as water.

Indian food security improved, yet there

has been degradation of ecology and

increasing indebte indebtedness of farmers

Low External Input Sustainable Agriculture minimises use of inputs, while aiming for higher yields.

- 1. Anoieasing water use efficiency is one
- Means.

 2. Some states have adopted Doganic

 Earning og Sikkim.
- 3. Maharashtra and karnataka hone encouraged Two Budget Natural Earming relying on organic fertilisers and posticides.

· low dung is used to prepare many · Microbial solutions help get sid of pests The cunnulatine benefits of these methods are: D Water use reduced due to micro-voigation systèmic Rice Internification etc. It will help deal with impending water stressed. Scarcity. By 2000, India will be water stressed. 2 Lower use of chemical fertilizers help in) preserving soil facility over longer pounds 2) Butesting Reducing soil and water pollution . Earlier agricultural runoff leddled to entrophication in lakes. 3) Using bropesticides helps pereserne soil brodineraty and microbes that are useful to wan. De safeguarded. Risk of . Food web can

write on

Table 1

accumulating in food

pesticideresidue

· products is lower

A Kow input use protects farmer from indebtedness, and farmer sincides are reduced.

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

Export potential - Agricultural produce with low perticide | fertilier residere can meet stringert quality norms of USA and Ewropean

Minions.
. Amproving agricultural exports will help improve farmer income.

hey goalfor Andia. Similtaneously 512 2

hey goalfor Andia. Similtaneously 512 2

calls for adopting agricultural practices that

preserve soil, water and local brodineristy thus

LEISA should be used without endangering

food sewrity.

हाल ही में जारी IPCC की छठी आकलन रिपोर्ट (AR6) – 2021 को मानवता के लिए 'कोड रेड' माना गया है। इस संदर्भ में, भारत पर विशेष ध्यान देते हुए इस रिपोर्ट में उजागर की गई विभिन्न चिंताओं की विवेचना कीजिए। साथ ही, इस रिपोर्ट द्वारा प्रदत्त उपचारात्मक उपायों को भी सूचीबद्ध कीजिए। (उत्तर 250 शब्दों में दें) उम्मीदवारों को

इस हाशिए में नहीं लिखना

must not write on this margin

चाहिए Candidates

The recently released IPCC Sixth Assessment Report (AR6) - 2021 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

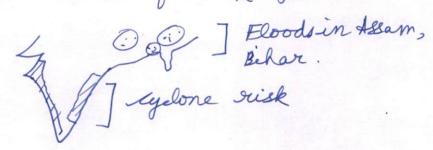
the Intergonounnental Panel on elimate charge (IPCE) is a lody of scientists reviewing latest research on dinate change. Thereafter different assessment reports (ARs) have been published at different points in time Concerns raised in ARG 1. Increasing variability of monsoonal rain Andrain agriculture will be adversely effected El Nino Modoki 2. Increase in El Nino and La Nina. Thus droughts will be more frequent, impacting food sewrity of India Average

3. Rise in global temperatures can

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

· this will reduce yields of Indian farms.

4. Increase in forequery and intensity of ratural disasters like floods and cyclones.



5. Economic losses due to higher temperatures
that reduce productivity of of construction
sector workers.

6. Spacier melting will accelerate, thus there could be sarrity of water in perennial vieners of Hindu kush Himalayan region 7. Sea level rise will impact low lying coastal cities like Mumbai, Chemai and Kolkata.

Remedial measures reconmended are:

1. Transitioning to a less carlon intenime

economies by innesting in renewable energy, public transport, electric nehicles etc. a. Reveloped nations to provide climate finance including \$ 100 extlion pledged in privous oround of negotiations. 3. More ambitions dimate charge intigation targets should be set. 4. Climate persofing rulnerable sectors of economy of agriculture - developing drought and heat resistant varieties. 5. citizens should bry klimate insurance to protest against risk of natural climate change from presents an existential threat to mankind. IPCC 6th AR provides the evidence for the same. India has rightly demonstrated leadership for climate action through 'Panchamouit pledges at COP26,

इस हाशिए में नहीं लिखना

Candidates must not

this margin

40

lylasgow

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)

6.

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)

India has a thouring chemical industries that are reliant on heavy industries that are reliant on chemical engineering operations. I soon and steel, thermal power, refugeration plants are among these and featherer industries are among these.

Preparedness in Chemical Disaster Management

1. National Disaster Maragement fathority has released guidelines.

2. Nodal ministry has been designated for chemical disaster maragement.

3. Standard Operating Rowcedwies have Deen designed for a processes involving chemical

reactions

4. Ristrict Disaster Management tathorities
have prepared early warning protocols
as well as evacuation plans.

इस हाशिए में नहीं लिखना

Candidates

must not write on this margin

5. National Risaster Response Eorce has been trained to and equipped to respond to chemical disisters.

6. Different government authorities of lustoms Department oversee import of bazardous chemicals.

However there are some gaps in Com

- 1. Rack of segular factory inspections to ensure adherence to safety norms.
- 2 Sometimes Solsare violated and & key chemical units started without qualified personnel being present eg llizag disaster.
- 3. Regulatory focamework gonerning the import of chemicals is complex.

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

4. <u>Post Disaster</u> and <u>Dus</u> Pelief related issues

1) NDRF may not be able to respond in

time. SDRF (State Disaster Response Force) should

be trained too.

2) Holding the plant operator liable, to seconor damages and thus compensate victime.

3) Health infrastructure may not be able to cope with large number of victims sequering specialized core.

threat to life and health of individuals. They also affect public faith in theme safety of chemical industries. Therefore it is necessary to streamline management of such disasters speedily.

COVID.

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)

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

rations, non state groups and citizens have sought affordable access to patented vaccines and medianes dendoped to treat

Andia South Africa countries

Essues riaised regarding Intellectual Broperty Rights (IPR) and:

1. These dougs are often patented for 20 years or more.

2. Thus no other wanufacturer can produce them, and they are often unaffordable for the common man.

3. Extent energreening also occurs.

The lifts period of patent rights is

extended by making superficial tehanges to drug vaccine design

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

4. Set there is considerable vaccine inequity of many African nations have not yet vaccinated 50% of population. European nations have begun-juring looster doses.

Thus there is a demand to utilize tools like:

- 1. Patent wainer for COVID vaccines Andia Sought this, so vaccines could be man produced, to meet needs of all nations
- 2. Betent pooling · Two or more companies
 pool their patent rights. These are sold to
 their producers, in return for royalty.
 other producers, in return for royalty.
 Access to necessary medicines will rise.
- 3. Compulsory Licensing Andian government can order patent holder to provide production sights to another company, in exchange for royalty.

4. Voluntary licensing - Ratent holder itself authorizes other companies to produce covers vaccine I doug.

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

the alone measures can discourage innovation by the patent holders. There is a need to localarce the rishs and benefits, title while dealing with TPR regime underpinning these public has health goods.

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

the defence sector is a essential for upholding national security. Indigenitation of the defence sector helps reduce reliance on foreign powers, and losster military sapabilities whenever needed.

Ever long, defence indigenitation suffered due to

Dack of <u>level playing field</u> for deferce Public sector Des Undertakings (PSUS) and private sector.

- 2) Enadequate participation of Indian MSMES.
- 3) Strangent Eoreign Direct Innestment norms
 that were have been relaxed only lately
- 4) Excedom to import deferce equipment, disincentivized domestic companies from innovating to produce same equipment.

5. Lack of ease of doing business - Deferce proceedement was delayed and prospective supplieres became discouraged. 6. + the steps that can improve indigenisation acce: 1. Level playing field - No pereference to defence PSUs in procurement. 2. Corporatization of Dendrance Factories to inocease professionalism, innovation and investment in Research and henelopment 3. Adding more defence items to negative import list, oceating opportunities for domestic producers 4. streamlining defence procurement procedures to reduce delays.

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5. Minimum indigeneous content in different categories of deferce equipment to should be hiked to st least soil. · 60%. Il can le stipulated for some Kategories 6. Encouraging joint ventures de leading to technology transfer from foreign to Indian defence producers. 7. Bus Toint development of Brah MOR with Russia will aid indigenisation. Similar initiating are required with Israel, Evara and USA. India faces security threats from its reightours. In indigeneous defence sector will lolater capabilities in count to counter threats. Therefore requisite reforms should be implemented on war footing

उम्मीदवारों को इस हाशिए में नहीं लिखना चाहिए Candidates must not write on this margin 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 security of India. (Answer in 250 words)

नहीं लिखना चाहिए Candidates must not write on this margin

उम्मीदवारों को

इस हाशिए में

Central Asimed Police Eorces

are largely under operational control of

Ministry of Home Affairs (MHA). Assam Pifles

is under dual control. These forces were

raised at different times, to achieve

specific objectives like:

- 1. Addressing seawaty concerns along Nepal border - Sashastra Seema Bal.
- 2. Tackling the concerns posed by China -Ando Zibetan Boarder Police
- 3. Improving lorder sewrity along lakistan lorder — Border Sewrity Force.

These forces were raised since:

1) Specially trained and equipped personnel could guard lorders better.

2) Relieving burden on sormy to guard lorders 3) Browiding a detorrent effect against aggressive hostile actions at the lorder.

4) Acting as first line of defence in case of

Contribution to Indian seavity

- 1. They have helped quard sensitive lorders shared with there and Pakistan
- 2. These forces have fought made societies in line of duty eg CRPF patrol mari personnel martyred in Ladach in 1959.
- 3. BSF has effectively countered cross lorder terrorism (khistan border) as well as drug traffishing, illegal migration and wevery snuggling (Bangladesh Corder).
- 4. ITBP has determed shinese og infolwan valley.

5. Assam Rifles has helped word thouat

posed by ULFA, National soon Socialist

Coursel of Negaland etc.

6. Ruring various disasters, they have been

foist responder.

The National Seavity Guard, brave brooks

The National Seawity Guard, draws troops from CAPE and Army. It helped quell 26/11

for internal and external security of the ration. Otrengthening them fewther in terms of personnel, training and juvisdiction is required.

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

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)

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)

Mirtualassett are those weated and stored using blockchain technology es emplouverry like Bitcoin. They have been outlasted for their ability to sid money laundering in following ways: 1. Mitual assets offer their users anonymity. It is easy to soony out ferancial transactions to disguise the identity of owner and sowece of funds. 2. Raw enforcement agnies have struggled to with this type of money laundering 3. While viortual assets are largely not authorized in most nations, commirals

still fout the ourles and secure access to them.

4. There is no global regulatory regime governing use of these virtual assets.

corrective actions that san be taken are:

- 1. Mirtual assets should not be made legal tender, else their they will be visused.
- 2. A <u>Central Bank Rigital</u> Coverage can be explored to address mass hyptions environmenting bitcoins.
 - · This digital wexerry well-be used instead of other vivitual assets.
 - 3. CBD C. will le tracable by leserve Bank
 of India. Then stope for money
 laundering will fall.
 - 4. India, along with other like mended

nations should push for subast regulation of these virtual assets.

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

5. Einancial information exchange agreements
should be made more comprehensine to teter
minuse of these assets for money boundaring.

Money boundaring indicates

prevalence of course, weakens suche of law
and deprines government of revenue. It
must be wigently addressed through adequate
negulation of wirthal assets.

SPACE FOR ROUGH WORK

