



S'VISIONIAS INSPIRING INNOVATION ABHYAAS MAINS

सामान्य अध्ययन (प्रश्न पत्र-III)/GENERAL STUDIES (Paper-III) (2424)

निर्धारित समय: तीन घंटे Time Allowed: Three Hours

अधिकतम अंकः 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 अपते 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.

444569.

अभ्यर्थी का नाम/Name of Student :

Akankoha

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

तारीख

Date

The Bhai Joga Singh School, Karol Bagh.

निरीक्षक के हस्ताक्षर Invigilator's Signature Chl

	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 (क्यू.सी.ए.) 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 (क्यू.सी.ए.) 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 लिखाबट 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।			

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	Caronia Renotte pe		
परीक्षक के हस्ताक्षर			
Signature of Examiner(s)			

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

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सामान्य अध्ययन (प्रश्न पत्र-III)/GENERAL STUDIES (Paper-III) (2424)

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 पहें:

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

खाद्य सुरक्षा के विभिन्न आयाम क्या हैं? इन आयामों के मद्देनजर खाद्य सुरक्षा सुनिश्चित करने के संदर्भ में भारत की स्थिति का परीक्षण कीजिए। (उत्तर 150 शब्दों में दीजिए)

What are the different dimensions of food security? Examine India's status in terms of ensuring food security with regard to these dimensions. (Answer in 150 words)

नहीं लिखना Candidates must not write on this margin

Food Security refers to the availability of adequete, safe and melritions food, to all people, at all peaces and time at affordable costs (UN World Food program) Dimensions), Safe , Autitions > Adequate India's Performance

1.

D'Afforderiling: Good.

www.visionias.in Pignt to affordable.

food under National Food Security all Candidates must not write on this margin (3) Safe : Poor. tel Rotting foodgrains un 8ilos - s mycotosins. Feg Chemical fertilise oranse Multitions: Poor Eg.) Hidden tunger. (2) Circalo domineti productos lilerica and wheat Adequelé: Pour [2] 107/121 in Glosu tengu India should inprove and grahrate its performance en all the asove meterics www.visionias.in & truly being about melnsne derelopmen, ब्लॉकचेन और चैटजीपीटी जैसी आधुनिक प्रौद्योगिकियां कृषि को अधिक कुशल और संधारणीय क्षेत्रक में बदलने की अपार क्षमता वाले शक्तिशाली साधन हैं। भारत के संदर्भ में चर्चा कीजिए। (उत्तर 150 शब्दों में दीजिए) Modern technologies such as blockchain and ChatGPT are powerful tools with immense potential to transform agriculture into a more efficient and sustainable sector. Discuss in the context of India. (Answer in 150 words)

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

Industry 40 consisting of AI, Blockchain, 107 have taken over all the aras, and agriculture ins no different

Use of technology for agricultural hansformetr

Precision agriculture. Feg Soil health monitor

I Internet of things for miero verigation

2.

(3) Blockhain; use of to monitoring benefits and delvis of scheme. Candidates write on this margin Chat GPT: can help in determing empires Danne Surveillance: for checking past attacus. wadhwa Committee has. also suggested digitisalit I food vanagement practices \$00

वैश्विक अर्थव्यवस्था में वि-डॉलरीकरण की प्रवृत्ति में हालिया तेजी के लिए कौन-से कारक उत्तरदायी हैं? क्या आपको लगता है कि डॉलर का प्रभुत्व जल्द ही समाप्त हो जाएगा? (उत्तर 150 शब्दों में दीजिए)

What factors have led to the recent acceleration in the trend towards de-dollarization of the global economy? Do you think the dollar will lose its dominance anytime soon? (Answer in 150 words)

उम्मीदवारों को इस हाशिए में नहीं लिखना चाहिए Candidates nite() not write on this margin

De-dollarisation of the economy refus to the replacement of dollars. (greenback) with other domestic overersy like ruper, in international viansactions.

Factors

Ascedency of currencies like .

Other initiatives like

Masala Bonds.

full current account convertabil.

Vostro Accounts for

www.visionias.in

Decline en tre laonomic dominance of USA Sence washington Consensus in 1980; Candidates this margin Multipolar economic world order Fel Beijng Consensus. Les Push for reforming WTO, INFets [] Other multilateral agencis like A sian deretop mont bank from grossi south I think that dollar shell remain the hegemonic hard currency for one of two the next decade However, of in the meantine, Other curences like ruper, Yen etc shall be ascedent, on back of full current and capital account convertabilly (Tarapole Committee) la estasuse a truly multipolar currenty

विकसित देशों द्वारा भारत पर खाद्य सब्सिडी व्यवस्था में बदलाव करने के अत्यधिक दबाव के बावजूद, भारत के 4. लिए निर्धन व्यक्तियों हेत् अपना नीतिगत समर्थन बनाए रखना एक उचित कदम होगा। विवेचना कीजिए। (उत्तर 150 शब्दों में दीजिए) Despite significant pressure from the developed countries to alter its food subsidy regime, there is merit in India trying to retain its policy support for the poor in the country. Discuss. (Answer in 150 words) India's food Entsity has. breached the de ninimis" criteria under the Amber box. of Agreement on Agriculture my w70. Being down Entsidy to less than 10 h. Pressone from > Replace trade world distorting practices with others. > Counta vailing nearnes by emope & USA Merit in Pood Subsidy 1. Coustunger and naturalists tel India 107/12/11 Glosal tunger indes 12 www.visionias.in

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

Procurement of foodgrains from farmer - for assured returns avoid distrise lale. facilitate Duman development porcety alleviations (4) Taking care of myrane population (ef) One nation, one ration card. Targetting the poorest, and most vilnerable. Tel Antyodaya Anna Yogna
Tel Pregnant and lactation me there
under NFSD under NFSA India should resist the presences of lowering food sussidy from vest, but should nate it more afficient theorgin Digital India for prosperous. India @ 100

उम्मीदवारों को भारत की जल संबंधी जरूरतों को पूरा करने की दिशा में सरकार द्वारा कई पहलों की शुरुआत की गई है, परंतु 5. इस हाशिए में जल की उपलब्धता और जल की गुणवत्ता जैसे मुद्दों पर अभी भी नीतिगत हस्तक्षेप की आवश्यकता है। विवेचना नहीं लिखना चाहिए कीजिए। (उत्तर 150 शब्दों में दीजिए) Candidates must not Several initiatives have been taken by the government towards addressing India's water needs, write on but the issues of water availability and water quality still warrant prioritised intervention. Discuss. this margin (Answer in 150 words) India has 4 % of water & esources. and 18%. of world's population lins making water conservation initiatives a top priority. Initiatives by government 1 Jal Jeevan Abhiyan: 55 l/ per capita tap water & smal Dal Shaket Ashrijan: water conservation Atal Blugal Topra; sustaineble groundwater conscivation. Inter anking of swers: to connect water deficit areas to water richareas. leg Ken Betwa.

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Required priority for water Quality | meded to states availability needed to states and Inter availability needed to state of the silver of th 1). Scarcily! UN water report says.

That 26% of population locks.

Safe water 2) Polluted Stretches of swiss Fel most in Mahasashtia, Unisinstainable groundvatures hach Et 90% of all Gw estracts in India. (4) Vietnal water trade is unaccounted s cucular water management [way > Phyto remediation -s Traditional consumation Johads, Surangameet Micro urigalis. water is sedrocuof all human coistense, but my and must be worldway according to Duslin principles आर्कटिक में हिमनदों के पिघल कर संकुचित होने के लिए उत्तरदायी कारक क्या हैं? पारिस्थितिकी तंत्र पर आर्कटिक हिमनदों के पिघलने के संभावित प्रभाव का वर्णन कीजिए। (उत्तर 150 शब्दों में दीजिए)

What are the major drivers of glacial retreat in the Arctic? Describe the potential impact of the retreat of Arctic glaciers on the ecosystem. (Answer in 150 words)

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

Arctic retreat is specially pronuced, as compared to bether zones cryospheric zones, which has mide ranging affects le on resources rivalry, water security

Drivers of Arctic Retreat

O Global warning : heaty of the

Teg Carth warmer by 1.2°C as compared to pre-mountained levels (IPCC).

Arctic Amplification: phenomena of 2-4 tomos greater warming

(3) gebedo affect: melting ice reduces reflects of sunlight by. www.visionias.in white ice -s further warnif.

affect of warm currents Les like Gulf coverent & Resource race in the region Tel Russia's nuclear de breaters. Impact of Arctic retreat on. O Rise of sea level. (2) Zombie Ice and broken ice sheets tel ok Johne extence in Iceland Extenction of species like. Polar Bear.

Fel needs ice to Rint seals/fish (3) Slowing down of Antarctical cuculation of luse miring of water Arctic is one of the troping points in the climate change (IPCC), which Inall cause verersite and dirastatiq changes in earth's.

www.visionias.in ecosystems 17

अंतरिक्ष पर्यटन, जिसे सीधे तौर पर एक साइंस फिक्शन फिल्म के रूप में देखा जाता था, अब बिना किसी बाधा के वास्तविकता बन रहा है। अंतरिक्ष पर्यटन से संबंधित चुनौतियां क्या हैं? इन चुनौतियों से निपटने के लिए क्या उपाय किए जा सकते हैं? (उत्तर 150 शब्दों में दीजिए)

Space tourism, which was viewed as something straight out of a science fiction movie, is now becoming a reality albeit not without hindrances. What are the challenges associated with space tourism? What measures can be taken to address these challenges? (Answer in 150 words)

Space x herre seen actuely

Space x herre seen actuely

pursuing the possibility of

space townism serious, that

shall enable the people in

experiencing be erra-terribed

environment, literally.

But challenges hemain

enable only few super-rich to partake this experience.

Espece Debris, Kesslu effect et.

Commercialise the space sector

so conteary to its status as.

www.visionias.in

global commons

(4) Opportunity cost: wasteful levoury against pending gods.

of removing poverty (SDG 1),

tunger (SDG 2), etc. Candidates must not write on this margin (8) No orgnificant spin off benefits of as opposed to scientific missions to space. tel Chandrayaan 3. Measurs 6 address 1 Preced manned townsom with. 2050tie miserions first, to test safely (2) Include Test Resoure capsulus, and other safety linces. E) Space toursm can be made conlingent on interest and merit rather than wealth. Prially, private sector should be made a party to the liability convention to address any harms arising out of it!

वैश्विक स्वास्थ्य विशेषज्ञ व्यापक रूप से मानते हैं कि CAR-T सेल थेरेपी का विकास कैंसर के उपचार में एक बड़ी सफलता हो सकता है। CAR-T सेल थेरेपी, CRISPR-Cas9 तकनीक में व्याप्त किमयों को कैसे दूर कर सकती है? (उत्तर 150 शब्दों में दीजिए)

Global health experts widely believe that the development of CAR-T cell therapy can be a game changer in the treatment of cancer. How can CAR-T cell therapy overcome the limitations of CRISPR-Cas9 technology? (Answer in 150 words)

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

CART therapy refers to the patients modifications of the patients own Teells (immunity mainey) own Teells (immunity mainey) to fight against cancer cells.

Blood Separated separated separated separated separated separated separated separated separated chimeric anti-chimeric anti-chimeric anti-gen reactor (CAR) gen reactor (CAR) patients blood.

Datients blood.

CART sells.

CART process against Cancer.

Benefits of CART over CRISPR-Cas9 1 uss chance of body rejection the treatment: Sceanse no forig (2) fastin Apprehensions of - off targetting and unintended mutations in Crisps- Casq. (4) less intensive that crisps-technology Difficult to use Crispr technology against mutulide of cancer cells. not in CART. Ohier paster recovery benfils only one time heatment repuired Curlike chemotherapy No radiations reprived -less change of relapse. CART therapy snows much promse in its assing to trea cure cancer and thus must become the four of. www.visionias.in Cencer research.

चर्चा कीजिए कि प्रमुख हिंसक चरमपंथी संगठनों द्वारा नई और उभरती प्रौद्योगिकियों के बढ़ते इस्तेमाल के 9. इस सशिए में नहीं लिखना विरुद्ध संगठित एवं ठोस वैश्विक प्रयासों की आवश्यकता क्यों है। (उत्तर 150 शब्दों में दीजिए) Discuss why the rising deployment of new and emerging technologies by prominent violent Candidates extremist organizations demand concerted global efforts. (Answer in 150 words) must not write on this margin The christehusch shooting in trance and radicalisation of youths over facebook in India. Strong the role of emerging technologies in enhanciq theet of radical. expensist organisations. Meed for concerted grobal efforts 1 Technologies defy boundaries, and eines no nation alone can tackle. Fer Recenitment of volunteus. By 1515 in India. Kadicalisatin and terror incidents mongh propaganda.

Tell youtuse channels banned
by PIB recently.

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Lone Dolf attacks and DIY.

Terrorism salher than network of the first form with an author of the planned sperations

Tenned sperations Les Gun violence 18 crostings in USA Regime of privacy in west and democratic countries. (3) Lenophobia Secanse of increasing glossens atis, enterre shocks. and Eg Root cause & se addressed. collectrity Balance privacy with radicalisation of . PIB fast Checky Way forward Criminalise fake rents. Opportunities of gainful all. India Should sign the Declaration on the future of internet is to its conceens and regoliste collectively with extremisms.

गलवान और यांगस्ते की घटनाओं के बाद वास्तविक नियंत्रण रेखा (LAC) पर तनाव बना हुआ है तथा भारत एवं चीन दोनों सीमावर्ती क्षेत्रों में अपने बुनियादी ढांचों को सुदृढ़ कर रहे हैं। इस क्षेत्र में ITBP द्वारा निभाई जाने वाली भूमिका पर चर्चा कीजिए। (उत्तर 150 शब्दों में दीजिए)

With the Line of Actual Control (LAC) remaining tense after the Galwan and Yangste incidents and both India and China ramping up infrastructure in the border areas, discuss the role that ITBP plays in the region. (Answer in 150 words)

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

line of Adrial Control is the Soundary Setween China and India, and remains tense because of annesation of Aksai Chin after 1962 was McMohan lie India's disputed borders. factors causing tensions in

Frequent Skirmishes and Stand offs. Feg Dorlam stand off.

Eg lather le pass.

Eg. Galwan valley stand off. Candidates must not (3) Rapid development of border infrastructure by Chine. - Tep China Pakistan economic corridor (CPEC) - Tep Military 20 ads and anships Aggressive and expansionist Stance of ching. ED claiming Arunachal Pradush
as part of Palmand & fingus Cartographic Warfare a both China and Pakistan maps Show entire kashmir to be a para of Pakristan, and Ausai ching to Roce of ITBP-Mans the borders along the LAC www. Psiomsdr Mc Mohan line.

क्या आपको लगता है कि भारत को 'भृमि उत्पादकता' के सिद्धांत को छोड़कर 'सिंचाई जल उत्पादकता' के 11. सिद्धांत को अपनाने की आवश्यकता है? अपने उत्तर का औचित्य सिद्ध कीजिए। यह बदलाव करने में कौन-सी चुनौतियां विद्यमान हैं? व्याख्या कीजिए। (उत्तर 250 शब्दों में दीजिए) Do you think there is a need for a shift from 'land productivity' to 'irrigation water productivity' in India? Justify your answer. What are the challenges in making this shift? Explain. (Answer in 250 words) Land productivity is an outdated fram Isrigation productivity nearours the productivity of agricultural production per unit of water used for verigations rather than per unit area of land Heed for shift from land to Irraigation water productivity Icarcily of water resources: as I reed for more efficient use this J Contrastingly, land available is first and productivity is an outlated

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

More consistent with ongoing Eg Perdrop more crop i under KM kristi Senchayee Jopha Can be an effective indication of where b_invest, and government intervents. Tel canal divelopment (5) Help shift hom water guzzling crops to hardy crops the millets (4). More efficient agricultural practices development Feg Driect Seedig of roce. Feg Systemthice intensification Miligation and Adaptation to climate changes.

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

(Challenges) 1 land productively has become an accepted metric of productively (2). Rain fed areas: difficult to measure reigato productivity tel 48 % of agriculture in India is Rain fed. Shall Shift fours away from - balanced use of feet lises scientific management of soul. Hephanist Dhawhar (Bb). [eg) Pm Pranams > Develop composite choosing one. Day (soil-water productivity) Agriculture, as the employer of. more Than 40 % of population is - The Sedrock of Indian economy and most be made more productive on all fronts-like verigatin,

Rand, feetilesis et.

भारत की ऊर्जा सुरक्षा प्राप्त करने में हरित हाइड्रोजन की भूमिका का परीक्षण कीजिए। राष्ट्रीय हरित हाइड्रोजन मिशन, भारत की अपने ऊर्जा लक्ष्यों को प्राप्त करने में किस प्रकार मदद कर सकता है? (उत्तर 250 शब्दों में दीजिए)

Examine the role that green hydrogen can play in unlocking the energy security of India. How can the National Green Hydrogen Mission help India in achieving its energy goals? (Answer in 250 words)

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

union bridget 20 23-24 has.

union bridget 20 23-24 has.

unvailed a Green Hydroger

policy for onstainable energy

peetor.

Receivelyins

trydrogen

Renewable

energy source

Role of Green tydrogen

D Almost no green house emissions and pollution.

No fossil fuels envolved: this true alternate to fossil based economy

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Reduce Carbon intensity of. The economy. Feg NDC: reduce Courtensity by. 45%. (4) Can be easily used in all form
of vehicles, industrial use etc Kole of Green Hydrogen Mossion O Provide recessary fenancial and policy support to manifacturers

Eg enough viasitity Gap.

Funding (2) Contres of excellence for RAP in green Hydrogen Set a policy framework. for production, leansportation www.visionias.in

उम्मीदवारों को इस झशिए में नहीं लिखना चाहिए Candidates must not write on (9). Pare the way how fossib economy to typarogen based 1 Safety: Inflammable at room temperalite Challengis-to se considered & Difficult to Store and leansport-13) Takes a lot of. space in Beig stored as gas (4) Bottlenecks in system storage Green flydrogen mission shall enable India to neet its goal of ret zero emissions by 2070, as well as diversify and fortify it's energy lector against groportical and ecological concurs

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हाल के दिनों में, सरकार न्यूनतम पारिश्रमिक की जगह जीवन निर्वाह पारिश्रमिक को अपनाने पर विचार कर रही है। भारत में जीवन निर्वाह पारिश्रमिक को अपनाने के लाभ और इसमें विद्यमान बाधाएं कौन-सी हैं? (उत्तर 250 शब्दों में दीजिए)

The government has been weighing a transition from minimum wage to living wage in recent times. What are the benefits and constraints in the adoption of living wage in India? (Answer in 250 words)

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

hving wage, considered by government, may be defined as adequate remunestion for ensuring decent living conditions and opportunity for growth for onself and one's family Difference setveen hverg wage and Menimum ways. Menimum wage. wing wage 1) only meets basic needs. (1) adequate returns for ensuing decent like food, shelter opporthentis etc. Minimalist 2) Marsimalist approach approach (c) Idealistic 3) Instrumental et Amadrija Sen capasility model. (human fours.)

Benefits of civing wage fours ses on human development Candidates must not write on this margin in a hotistic sense, and development of capabilities. considers non monetary aspects
of living as well. FeJ entertainment
FeJ Peace and Stabilly Based on an expansive definition of Article 21, (Mareka Gandhi coase) rather than just bodily lafely (4) Acrords dignity to the worker as. J Minimum wage only treats them as productive instruments. Challenges Broden on public exchequer: Ef Around 4 % of Bridget goes. into transfer payments. like but sides.

Better to subsidise essential seerices man one off payment Fel mo possibility of misuse / this margin procons use of noney (2) lack of implementate of even minimem wage
II Informal sector economy (4) Lack of Political will [] Unwersal Basic meome Ras. disappeared from conversations. B Gender disparely Eg Almost 90% women work in informal fector, where implementation of any scheme is patchy. A Holway Forward Sign 120 convention oh Jason.

Jasone. living wage tenonger Comany act amendment I Amend lesoner code. working class welfars is the determinant factor behird encises of -Amit Real

14.

केंद्रीय बजट भारतीय अर्थव्यवस्था के लगभग हर क्षेत्रक को प्रभावित करता है, फिर भी न तो बजटीय प्रक्रियाएं पर्याप्त सार्वजनिक जांच के दायरे में आती हैं और न ही बजट नीतियां। क्या आप इस कथन से सहमत हैं? अपने उत्तर का औचित्य सिद्ध कीजिए। (उत्तर 250 शब्दों में दीजिए)

The Union Budget affects almost every sector of the Indian economy, yet neither the budgetary processes nor the budget policies come under substantial public scrutiny. Do you agree? Justify your answer. (Answer in 250 words)

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

Dnivy Bridget (A. 112) is an annual document prepared by Department of Economic Affairs, finance:

Menistry, laying ont the planned priorities and expenditure for the rest year, as well as & owces of revenue.

Recta of Bridget on all lectors of the economy

Lectors of the economy

This can be demonstrated theorethe Bridget 2023-24, which affects

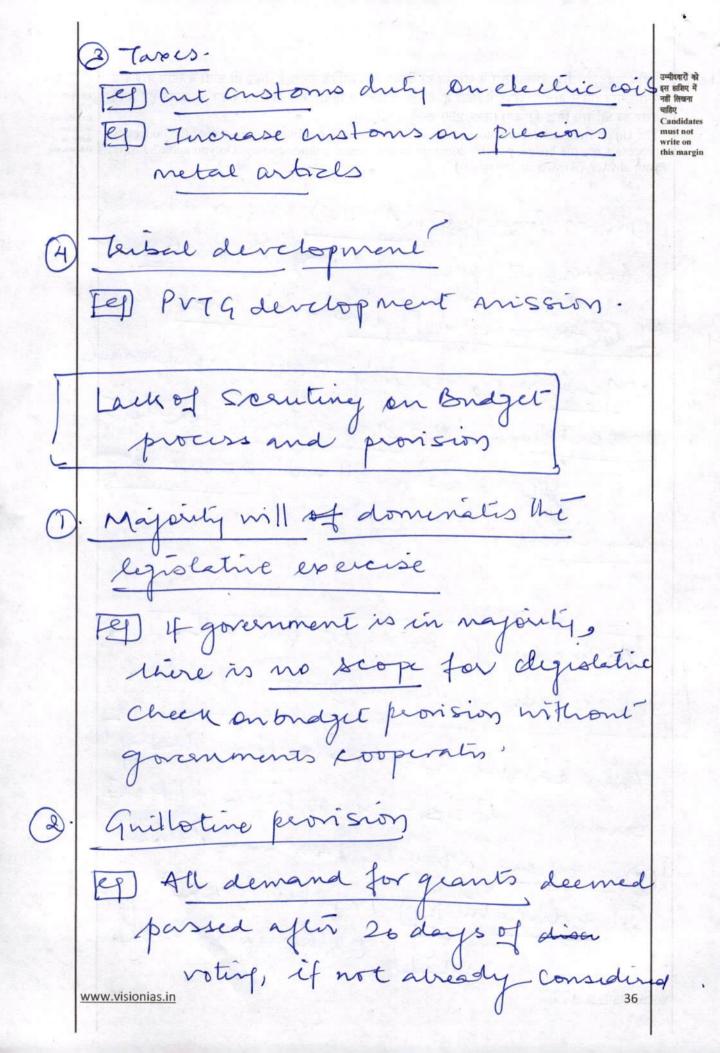
Bridget 2023-24, which affects

Women: Manila lamman Patra

Digital lessary

Educatin Kg Digital lessary

Extanga school



3 No effective Day of Rayija Sasha. (RS) Candidates Tel Budget only laid in RS, this margin [4] Rayija Sasha can only Suggest peronisions-(4) No Ras Presidential Check. [9] President cannot send back the boudget unth suggestoins (5) Poor discussion of peonisions and impacts in media and public 6 Dense language of budget, incompréhensible la layman. (9) No provision for seeking public comments and objections. Day Forward public comments

leasy version of budget

released for public Bridget to se passed by 2/3rd majority. V Saska Saath saska rikas should Start Rom reforming bridget process.

India has been able to transform itself from a milk deficit country to the world's biggest milk producer, but the productivity of dairy animals in the country remains a concern. Discuss. (Answer in 250 words)

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

India is the largest producer. of milk, owing to the while Tevolution of 1960\$ and 1970s and successful experiments like AMUL Cooperative

However, productivity challenges.

1. Diseases among cattle are prevalent tel lumpy con disease [4] Brucellosis and foot 2 Month disease.

low productivity of indigenous breeds barring some like Sahiwal and Red Sindhing

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(3) No Enstainable and humane nethod of dealing with old and improductive coms. Candidates must not write on this margin (4) Poor condition of goshalas - poor funding and support-(5) lack of organisation of livestock owners into Producu organisators, tos, cooperatives etc. 6) Poor backward and forward Et leading to spoilage. Poor Quality of feed, consisting of mostly dry fodder. I low. producturely.

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1. Artificial inservation of cattle for more productive breeds. Et er pedili Gokul Yojus नहीं लिखना Candidates write on way this margin forward productive breeds. 7(3) Protein richard multitions feed. (Soyabean Jud (9) Disease ehmenetis programmes and vetermary centre: (ef) national programie for elimating FMD & Brucello sis. The livestock sector mist be dercloped, in accordance with The vision of Directure primarples of scientific management of cattle bringer a Ind Sostainable white rolution

जहां एक तरफ जलवायु परिवर्तन, फसल की विफलता के लिए जिम्मेदार है, वहीं दूसरी तरफ चरम मौसमी घटनाओं के लिए कृषि क्षेत्रक स्वयं आंशिक रूप से जिम्मेदार है। विवेचना कीजिए। भारत में कृषक समुदाय की प्रत्यास्थता को सुदृढ़ करने के लिए राष्ट्रीय कृषि आपदा प्रबंधन योजना के तहत क्या रणनीति अपनाई गई है? (उत्तर 250 शब्दों में दीजिए)

While climate change is responsible for crop failures, the agricultural sector itself is partly responsible for extreme weather events. Discuss. What strategy has been adopted under National Agriculture Disaster Management Plan to strengthen the resilience of the farming community in India? (Answer in 250 words)

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

The agricultural sector is joing hrough a crisis, seeanse of. Climate change related factors as. well as faulty agricultural to practices Shifting rainfall Patterns. Impact of. & erratic precipitations climate Intense heat changeon et daying of sucrose in Sugarcane x Increasing pests tel migration of locust Invarino from west Asia because of climate Change Impact of agricultural practices on extreme weather events

O. Canal and tubewell verigation va flooding -s leading to uncreased evaporations that causes increased rains. 2) Livestock scelor -) use of methanogenic feed makes it one of the largest emitters of. nethane. Methane - Greenhouse - Globral (260 ho of affect warming pre-industrial levels) warming Wsee of water questing crops [e] 89 % of groundwalu extraction because of agricultures imbalance (4). Stubble Bruning of rice ceops remains of pollution and global www.visionias.in (Ly Kinjas, Haryana, west UP.

उम्मीदवारों को इस स्राशिए में नहीं लिखना चाहिए Candidates must not write on this margin 3). Encroachment of forests to from into crop lands =) Reduce Larbon Sinks. a cutting of mangroves reduce natival barriers against Tourami Strategy under National Agrandence Dn Plan Obrande sustamable agriculture practivo tel Micro vergation, Deig and Sprinklie verigation. (8) Anopt hardy crops him millets (3) Precision and smart agriculture (4) Zonation of so areas vulnerable to estreme weather events C. Real time monitoring, and communication. Shielding the agricultural fector for meressing coheme weather events is a must to double, www.visionias.in farmer meome.

Candidates must not

write on this margin दिल्ली सहित भारत के कुछ क्षेत्र हिमालय में आने वाले भूकंपों के प्रभाव के प्रति अत्यधिक संवेदनशील हैं। विवेचना कीजिए। भारत में भूकंप से होने वाली हानि को कम करने के लिए कौन-से संस्थागत उपाय किए गए हैं? क्या आपको लगता है कि कुछ उल्लेखनीय कमियां अभी भी मौजूद हैं? (उत्तर 250 शब्दों में दीजिए) Some regions in India, including Delhi, are highly vulnerable to the impact of earthquakes

उम्मीदवारों को इस हाशिए में

नहीं लिखना चाहिए

write on

Candidates must not

this margin

originating in the Himalayas. Discuss. What institutional measures have been taken to mitigate earthquake losses in India? Do you think there are significant gaps that still exist? (Answer in 250

words)

Seismic Lone mapping & India places areas like Himalayas, North east region capital city of Dethi in expremely ruhierable zones

Zone for V Earthquake

Impació www.visionias.in

loss of life and proper ej Bhuj, 2011 Coastal earthquakes > osion & Tsunamis eg-Tsunami of 2004 landslides.

Institutional measures for mitigating losses 1. Early warning hyslim's with sus surface sensors, Richometer etc. 3) Earthquake vulneraisity zonatron mapping: for special efforts in vulnuable areas. (3) MDMA guidelines for earthquakes a) Early warning systems 5) local capacity building c) enforce brilding was. d) communication and enformation e) Mock dealls. (3). Membership of Sendai Framework. with its fours on 4. priority areas) understand disaster risk () Invest Improve government Preparedness.

(3) National Disaster Maragement Act 2005 estaslished retronal and state DM. anthorities; funds et. Challengs Gaps. 1 Over burdening the terrain in vulnerable areas (e) Tapoq Tapovan Vishigad hydro project in Joshinath (2) Quarrying and Mining in western Pour enforcement of building (4) Deban sprawl and haphazaed development of sities like Delhi AM's 10 point agenda, with its. fours on seeing development and disaster as "I vides of the Same coin" and this mainstreaming www.visionias.in D m in development should be adopted in all its dimers.

उम्मीदवारों को इस हाशिए में नहीं लिखना चाहिए Candidates must not write on this margin हाल ही में, वैज्ञानिकों ने परमाणु संलयन अभिक्रिया में निवल ऊर्जा लाभ की घोषणा की है, जिसे स्वच्छ ऊर्जा के भविष्य के लिए एक बड़ी वैज्ञानिक सफलता माना गया है। परमाणु संलयन आधारित विद्युत उत्पादन के क्या लाभ हैं? व्यावसायिक स्तर पर विद्युत उत्पन्न करने के लिए इसके उपयोग की क्या सीमाएं हैं? (उत्तर 250 शब्दों में दीजिए)

Recently, scientists announced net energy gain in nuclear fusion reaction, which is considered as a major scientific breakthrough for the future of clean energy. What are the advantages of nuclear fusion based power generation? What are the limitations in using it to generate electricity at a commercial scale? (Answer in 250 words)

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

Net energy gain refers to the situation in which a the nuclear reaction emits more energy than behat has got put into it which enables it to achieve ignition

[Advantages of Nuclear Fusion]

() lese polluting than nuclear.
fission technologies. (Proster)

Produce more energy thate fission or any other source of renewas a energy.

i. future of non-fossil energy

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47

More Stable relt down of reactions which melt down of reactions Candidates write on this margin Can be used in producing other renewable energy. tel link trydrogen: through electrolysis using nullear energy Mon exhaustible source of energy because of high energy intensity and with a small amount of frel (6) Scope in India - Immonse source of thorium in monazite sands Ghateshwar, Jaduguda etz [Challenges] www.visionias.in

· O. Pollution Let knownkulem protests against hot water discharged in water bodies - s heat pollution 2) tigh initial costs 3 Opportunity cost FeD millions of people go hungry (4) Possibility of muchan accidents tel Frikushima, 2011 [e] Chernosye, 201986 D' India Should not Shy away from experimenting with newless energy. Investing in To homaks (fusion reactors) and Small scale reactors can help it chart a sustainable path boroards producy 50% of energy from www.visionias.in fossail Source (MDE')
49

words)

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

उम्मीदवारों को

Money laundwing Refers to the illegal and illegaternate process.

of naking he illegat of black money seem legal.

3 layered process of ML.

3 layered process of ML.

1. Placement - placing illegal money
in legal systems
2. layering - Complex transactions
3. Integrals - part of formal
economy.

The recent amendment to PMLA' 2002 makes it an estraditable offense, and gives enhanced powers to ED to attack and seize assets.

[Officiacy of PMLA 2002] 1. Makes money laundering an offence and this peonidus leg nechemisms to ent links with terror fundip ED he is armed with immense powers to seize, attack assets related to the offence. A right step in enforcing fiscal discipline and financial integrity. (4) Preverte losses be the government.

revenue besanse of ideque acts. Provides a basis for cooperations noth international ML & initialized Not members hip of) FTFA. and ILO.

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

Challenges and Concerns. 1) not enough lafegnards against the misuse of act Can be used to target opposition leaders and cuels democratic dissent FED ED raids en Manish Sisodia. (3) Meet for bolstering & agreements for extradition EP Nias Modi and Vijay Mallya etill not erstrædited. PMIA is an effective instrument for countering Money laundering and terror financing. If concerns. are me addressed, it can be www.visionias.in genuine step lowards naking India a \$5 brillion leonomy

हिंद महासागर क्षेत्र (IOR) में मौजूद उन सुरक्षा खतरों पर चर्चा कीजिए, जिनका भारत के समुद्री सीमा संबंधी हितों पर सीधा असर पड़ता है। इन खतरों से निपटने के लिए एक मजबूत रणनीति सुझाइए। (उत्तर 250 शब्दों

Discuss the security threats present in the Indian Ocean Region (IOR), which have a direct bearing on India's maritime border interests. Suggest a robust strategy to deal with these threats. (Answer in 250 words)

India has a vart coastlere of. around. 7500 km and this has heightened Stakes in The security et in the Indian ocean region, for its international trade (95). enrougn Ocean vonte), coastal lafely and fishing endustry.

Security Threats in 10k.

1. Chinese presence vising: Readig & encirclement of or string of Pearls Strategy

tell 99 year have of Hembantota post (sei lanka) through Debt diplomaty.

Piracy operations Et in Persian Gnez, Red Sea and strait of Malacca where much Of enternational brade happens. Climate Change: leading to rise of Indian ocean livel and varine heat waves [4] Indian Ocean water rise by 1-2 com pecypear. (4) Disputed territory FG Sir Creek with Pakistan. Interst of other global players. Teg USA interested en indo pacific Strategy / way Forward) 1. Counter Chinese dominance

enrøngh multilateralism Fell BIMSTEC, SAARC, even 500. Anti priacy operations in effected are must not write on this margin Feg Operation Lankalp in Persian Mitigation and adapatation 6 deal with Climate crisis short term long Ferms e Indonsie ater TILEDS Serifting ez Panchameita capital from Jikarta to of Net zero by 2020 Pusantara (4) Ant Military operations with global players to evolve cooperations 3 cooperation with other stakeholders in lok. En development [leg] SAGAR (security I growth for all in the region Leg IORA throught the above strategis, India can become a net security www.visionias.in provider in-the loc.

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