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#### **GENERAL STUDIES (TEST CODE: 1225)**

Name of Candidate	NIOHI THAKUR		
Medium Eng./Hindi	ENGLIAM	Registration Number	44930
Center	DNLINE (PATNA)	Date	18/8/19

INDEX TABLE		BLE	INSTRUCTIONS			
Q. No.  1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	INDEX TAE  Maximum Marks  12.5	Marks Obtained	<ol> <li>Do furnish the appropriate details in the answer sheet (viz Name, Registration Number and Test Code): उत्तर पुरितका में सूचनाएं घरना आवश्यक है (नाम, प्रश्न-पत्र कोड विद्यार्थों क्रमांक आदि)।</li> <li>There are TWENTY questions printed in ENGLISH &amp; HINDI इसमें यीस प्रश्न हैं अंग्रेजी और हिन्दी में छये हैं।</li> <li>All questions are compulsory. सभी प्रश्न अनिवार्थ हैं।</li> <li>The number of marks carried by a question/part is indicate against it. प्रत्येक प्रश्न/भाग के अंक उसके सामने दिए गए हैं।</li> <li>Answers must be written in the medium authorized in the Admission Certificate, which must be stated clearly on the cover of this Question-Cum-Answer (QCA) Booklet in the space provided. No marks will be given for answers written in medium other that the authorized one. प्रश्नों के उत्तर उसी माध्यम में लिखे जाने चाहिए जिसका उस्ले आपके प्रवेश पत्र में किया गणा है और उस माध्यम का स्पष्ट उस्ले अपन-सह-उत्तर (क्यूसीए) पुरितका के मुख्य पृथ्व पर अकित निर्दिश स्थान पर किया जाना चाहिए। उस्लिखिक माध्यम के अतिरिक्त अक्ति माध्यम में लिए गए उत्तर पर कोई अंक नहीं मिलेंगे।</li> <li>Word limit in questions, if specified, should be adhered to. प्रश्नों में शब्द सीमा, जहीं विनिद्दिट है, का अनुसरण किया जा चाहिए।</li> </ol>			
			प्रश्नों में शब्द सीमा, नहीं विनिर्दिष्ट है, का अनुसरण किया जान			
20	12.5					
	larks Obtained:		<ol> <li>Any page or portion of the page left blank in the Question Cum-Answer Booklet must be clearly struck off.</li> <li>उत्तर पुस्तिका में खाली छोड़ा हुआ पृष्ठ या उसके अंश को स्थन्ट स से काटा जाना चाहिए।</li> </ol>			

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

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

Answer all the questions in NOT MORE THAN 200 WORDS each. Content of the answers is more important than its length. All questions carry equal marks.

The consequences of India's megacities producing tonnes of waste are troubling. Elaborate the statement and also discuss the significance of Solid Waste Management Rules 2016 in this regard.

भारत के मेगा नगर जो अत्यधिक माजा में अपशिष्ट उत्पन्न कर रहे हैं, के परिणाम जिंताजनक है। इस कवन का सर्विस्तार वर्णन कीजिए और इस संबंध में ठोम जपशिष्ट प्रबंधन निवम, 2016 के महत्व की चर्चा कीजिए।

Indian visis produce almost 150,000 tonnes of solid wante daily

90% willed

20% ouyled ) - mostly by

I informal subor

Trust dumped.

1) Pollution - air pollution - buring releases coz , other grun hour sarus,

water pollulion - leaches into gow and

directly released into fours (acus)

(ouans) land willution - pour quality land fills smethers

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# VISION IAS" (11) compulsor syryalim of wark - must for ruyly and success of wart - to- energy plants. (11) ten Entegralm of informal wante collection mino womany into tramal sutor by state got and suf help sours. (1) Generator - pays user fus to colluter ( fine for Citteris/ run igryation. The rud is to implement the rules and momete the unupt of ciular monony by reduce, june, sopre rugh approach. Call us : 8468022022 Visit us: www.visionias.in Page 3 of 60 This document is personalised for Nidhi thakur(t nidhi14@yahoo in)

What do you understand by compensatory afforestation? Discuss the key elements of government's policy in this context.

श्वतिपूरक बनीकरण में आप क्या समझते हैं? इस संदर्भ में मरकार की नीति के प्रमुख तत्वों की

Attornation ofter culting of forces to non-one idable purposes to

compensate for it -> compensator

attornation. -> via payments (include

CA + NPV + project speche payments)

Government's policy!

India's torget (INDC) is to mater tomos t 2.5-3 billion, additional corson sink.

for this deforatation much to be checked and afterwards momented. Sometimes deforatation may be sometimes deforatation may be

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3. Discuss the need for Green Financing. Mentioning some of the major global initiatives for it, highlight the climate finance architecture in India. हरित वित्तपोपण की आवश्यकता की चर्चा कीजिए। इसके लिए कुछ प्रमुख वैधिक पहलों का उल्लेख करते हुए, भारत में अलवायु वित्त संरचना पर प्रकाश डालिए।

financial instrument or involuments

of positive environmental enternalities

Need for gran financing: -

1) reducing biseal space of governments to support projects

1 Urgent need of such projute

(ii) Rising demand - with people and

busines busing union.

Major global inihahvy :-

UNFIL -> global environment faulis

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e) grun	dinate fund	1:- cratid	
by UNFIL	in 2011		
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3 amal	r bond inh	alive	
6) Grun Bon	d issued by	world bonk	
	nd issued by	sychelly.	
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Climate finance architecture in India  (1) tax and cus - was cers;  cers on petrol and dissel (budget	
in metrol and direct (budget	
Con all trial	
2019-20)	
2) Renwalle purchase obligations for	
DISLOMS via (REC) traded m	
3) Pyform achive trade -> under NMERE	
3) Py mm achine	
Via Escosis	
Ultimately the aim is to inuntivise	
environmentally sustainable source	
of every compand to polluling ones.	
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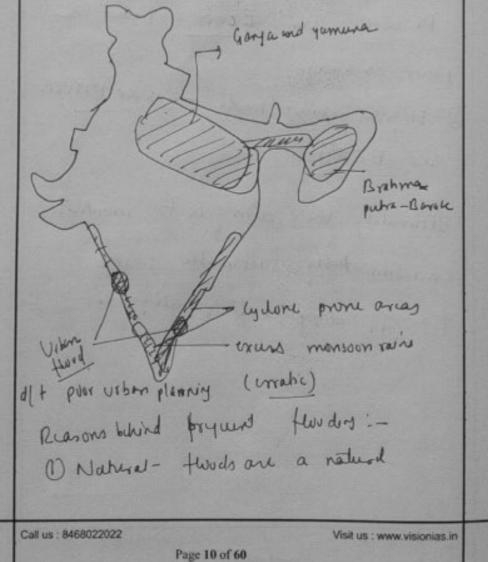
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4. List the different flood prone regions in India and identify the reasons behind their frequent flooding. What are the NDMA guidelines for management of floods?

management of noods? भारत के विभिन्न बाद प्रवण क्षेत्रों को सूचीबद्ध कीजिए और उन क्षेत्रों में बार-बार बाद जाने के कारणों की पहचान कीजिए। बाद प्रवंधन हेनु NDMA के क्या दिला-निर्देश हैं?

12% of Endis total orca (~40 million

hatare) is flood prone.



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phenomenon - with positive effects	- Sport Hadri
a) heavy nanfall concentrated in 3-4	
morths	
6) North - North astern - young river,	
trajile mountains	
heavy silting -> trequent change in wourse	
c) high susmicity	
increand numoft	
due to departation, poor large.	
- interference in drainage - bridge, reads	
- population primare - incombinent	
on two plain in wer beard bed	
- our grazing, our authoration  (3) cyclones - Heavy ranfall  storm surject	
3) uniloses - Heavy ranfall	
sporm romin	
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- 5. What are the priorities for action identified under the Sendai Framework for Disaster Risk Reduction? Elaborate how India's National Plan for Disaster Management has tried to integrate Sendai Framework. आपदा जोखिम न्यूनीकरण के लिए सेंडाई फ्रेमवर्क के अंतर्गत चिन्हित कार्यवाही हेतु प्राथमिकताएं क्या है? सर्विस्तार वर्णन कीजिए कि किस प्रकार आपदा प्रवंधन के लिए भारत की राष्ट्रीय योजना ने सेंडाई फ्रेमवर्क को समाहित करने का प्रयास किया है।
- @ SFORR adopted by un for companies describe management prontes for adom:
  - 1) Ri Understanding nick
- @ invalment in Rish reduction for millione
- 3 yournance in disaster rush.
- and build bout better for server reconscioned build bout better for server recovery, rehabilitation and sumstruction

India's NADH has mid to integral by thosing 5 thematic areas

- 1) Understanding with (2) intragency wordnot
- 1 invaling in structural (4) invaley in non structure
- 6) capacity divilopment stranting

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was recional approach who
be also be used for duclop metal
planning -> thus reduce note and
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I'm low ext
@ identified major autulies for et
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coxe, ful, frensport , scores, sure
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5 four on trains, capacity building,
integrating but practices.
3 Promoting durin which is schlable
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Define the term invasive species and provide examples from flora and fauna in India. What are the threats associated with the expansion of invasive species? In this context also discuss measures to address these

आक्रामक प्रजातियों को परिभाषित कीजिए और भारत में वनस्पति एवं जंतु जगत से उदाहरण प्रस्तुत कीजिए। आकामक प्रजातियों के विस्तार से जुड़े खतरे क्या है? इस संदर्भ में इन खतरों

को दूर करने के उपायों की भी चर्चा कीजिए।

Species which exist outside their present or part area of occurrence and are a threat to biodursity - invarire about species

eg faune: African apple snail, Papaya may By, botton mealy by, ator amajon saifin celfish. Amag thro: -Parthenium, Aracia Casara anthoso, Prosopis juliflura de

- They have buone become more common due to increavy trade and globalisation. They then thrive due to desine of ony natural productor.

Thrus: -

1) compulsion for local flora / found

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	11) disrupt the tood chain
	iii) may act as discase transmitt-
	ing agent.
	y can even lead to extinction of
	other spuis
v	post in agriculture, toward , history.
V	issus in nuncational autistis
	and tourism
	Measures to address:
	Aichi tarquis cour -1 As
11	Global invarire spuis program
	to support CBO
(1)	) IUCN - expart growt
	the exchange of information and unswings
	to ensure Unkage With Policy
	making.

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	VISION IAS"	Don't anythin man (द्वार अ व्हाउ स
1V) Borde	4 control measures such	. as
struit	y nouts of transmission	2
of there	men	
UN SPG IS	5 also war IAS.	
The state of the s	and in to IVEN,	5-25-1.
7.75	cause turn inva	2000
Awper and in a phan	lysis and then embed and manner with rative p is mental to preserve	intahan
1 410	threatened biodiversity.	
and main	tain usbigital equilibrium	
		19 37
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	and and a second	
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7. What is Environment Impact Assessment? Identifying the different processes involved in the exercise, highlight the purpose of carrying out this assessment. Further, mention in brief the status of EIA in India. पर्यावरण प्रभाव मृन्यांकन (EIA) क्या है? इस कवायद में सम्मिनित विभिन्न प्रक्रियाओं की पहचान करते हुए, इस मृल्यांकन को पूरा करने के उद्देश्यों पर प्रकाश डालिए। इसके अतिरिक्त, भारत में EIA की स्थिति का संक्षेप में उल्लेख कीजिए।

Mandald under environment protution act. 1986 - EIA aims to predict and miligate environmental impail of any durdepment project.

Procusy :-

- 1) screening: whether EIA is neved
- 11) swping: which areas of impact should be an undered
- 111) Han EIA :- prediction + evaluation

summay & migation

IN submit to CPCB - Public hearing

- 9 ds on NOC

V) MoEfic's impact assument authority

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Pumpose: -1) to balance developmental ruds with environmental wonavra 11) onsure local participation 111) proper continuous montrony and evolution to ensure accountability. IV) to war all born line data to provent any contingency. Status of EIA - Has brought a paradigin thange - town on sustainability, parhipation, accompability - issues with quality -> projut proponent has the primary responsibility to fund the EIA - s worthist of interest lack of proper data collubor - lack of expertix from various hild Call us: 8468022022 Page 20 of 60

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Don't write anything this margin rate arms at most or literate

such as social suintist and enthropologisty
in the expert peach.

- arbitraryly chosin was sultents
- delayed public hearing with low postupation

(if rountly so abopted work of

BMC along the bouch as the EIA

was not conducted with due proces.

EIA is an afficient tool to

ensure sustainable growth. It should

be implemented property.

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Don't write anything the margin (\$40 MH/\$

8. What is Climate Smart Agriculture (CSA)? Highlighting the need for adopting CSA, mention some of its key characteristics.
अलवायु स्मार्ट कृषि (CSA) क्या है? CSA अपनाने की आवश्यकता पर प्रकाश डालते हुए, इसकी कुछ प्रमुख विशेषताओं का उल्लेख कीजिए।

food and agricultural organisation (PAD)

definites CSA as agriculture which

absorbs gran house goses, finance

yield and productivity, is not vulnirable

to climate charps then beading to

to dimate charps then beading to

tood scenity and sustainable divelopment.

Nud for adopting (sA: -

by 2050, 70-1 more food will rund

to be produced qually

11) vulnerability of growthere :- expendly

in duchopy wurding when it is earn ted

FEONOMIC JUNUS -> farmes' income

charge in temperature, precipitation

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111) Yird - has lended off / is dulivis.	
(v) emerging challenges: - Pests, weeds,	
duling Siddwessity (monograpping)	
v) Entire tood rulor - from trop production,	
cattle, procusing, transport & contributed	
to the 1/3 od of total COL emission.	
01) Aquiulhure con burne not assurber of	
Wz if done propry	
vii) need to increase farmers' income.	
(my characteristics)	
1) On himatory - takes every stakeholder	
vicuspoint into amount -> to arrive	
at a shategy.	
11) provents unwordinated and compelity	
land use -) Adopts a landscape	
approach - interacted planning and management.	
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111) has multiple entry points at de Heart levels :divilopment of tuhnology, use of ICT, insurance scheme, value chain, strengthening of inchtitutions, enabling policy environment 10) engager engages women and marginal groups. Thus there is ned for agriculture that is more productive, revolunt and miligalis too 444 imission rather than contribute to it.

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#### Don't write anything this margin VISION IAS" (इस भाग में ब्युक्त मा क्रिस्ट्री) Enumerate the key factors responsible for bad air quality in Indian cities. Also, explain the significant aspects of the Air Quality Index launched in भारतीय शहरों में वायु की खराब गुणवत्ता के लिए उत्तरदायी प्रमुख कारकों को मुचीबद्ध कीजिए। साथ ही, 2014 में आरंभ किए गए बायु गुणवता मुचकांक के महत्वपूर्ण पहलुओं की व्याख्या कीजिए। WHO's global air right - India 14 out of 15 must polluted cities in the world are Indian. kus factors responsible:-(1) Population prinsure - rusing number of vahides (1) four compliance with ryulation ( location of industries, pours plants pour compliance with crission norms @ nor public tronsport, no law mule wonderity, wymitim on roads ( leading to enhanced from 1) time. 17 in number - takes 65% more time to trans due to traffic), quality of engines in vahous. (11) indust an pollution - 22-50 / of ambient air pollution Visit us: www.visionias.in Call us: 8468022022 Page 25 of 60 This document is personalised for Nidhi thakur(t.nidhi14@yahoo.in)

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- w unplanned urbanzation
- w) lack of trus , gran spaces, natural act lands.
- VI) surrounding areas shubble burning in (in Punjab Haryona)
- Aspuls of Arr quality indox launched

in 2014:-

- 1) meant to display ar quality
- in easily understandable colour world

form based on underlying parameters

such as NOx, SOx, CO, Oz, PM2.5 PM 10 NH3 and Pb. (total 8 pollutants)

- 11) board on national ambient are quality standards (NAARS)
- in) Total 6 AQI categories band on students and buly health impact.

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10. Write short notes on the following terms:  निम्निविधा पदाविनयों पर मिश्रिम टिप्पणी विश्विए:  (a) Hazard and Disaster  मंकट और आपदा  (N man mult)  Hazard → Natural, phenomenon that	
has the potential to damage left, property, in vironment.	
Disaster - when damage due to hazard	
excues the capity capacity of sourty using its local renources , its called a	
disaster.	
(Hazords) orc unavoidable for 19, carthquela Tsunami, uydonu, variations in rainfalls	
Hezards are unvented to desarters bared	
population which depends on :-	
Conderlying dynamic prisure unsate windition	
- Poverty - lack of insh- day from thind shigh localin	
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#### VISION IAS Don't write anything this morgin (इस असर जें कुछ भा शिक्ती) What are the characteristic features of coral reef ecosystems? Highlighting their importance, identify some of the threats being faced by them. प्रवाल भित्ति पारिस्थितिक तंत्र की विशिष्ट विशेषताएं क्या है? उनके महत्व पर प्रकाश डालते हए, उनके द्वारा सामना किए जा रहे कुछ खतरों की पहचान कीजिए। word polyps held together by Thuy occur in symbiolic rulation with one-colled algal (200 xonthelle)) wil -> provide shuter; algae - photosynthisis They occure in shallow, clear coxygenated, warm waters in tropical ocens Importance ! 1) Rainfrinks of occass - 0.1% of world's ouan area - 25% of all mann species 11) ewsystem services - toursmy fishing shoreline protubon, biotuhnology Visit us: www.visionias.in Call us: 8468022022 Page 31 of 60 his document is personalised for Nidhi thakur(t.nidhi14@yahoo.in)

margin (Ext Miss 2)

12. Explain the concepts of Bio-magnification and Bio-accumulation. Also, provide examples of the harmful impact of these two processes on the environment and human health.

जैव-आवर्धन और जैव-संचयन की अवधारणाओं की व्याख्या कीजिए। साथ ही, पर्यावरण और मानव स्वास्थ्य पर इन दोनों प्रक्रियाओं के हानिकारक प्रभावों का उदाहरण प्रस्तुत कीजिए।

Bio accumulation - accumulation of chimids in fatty hasue of living

organism and their conumeration. e-q

DOT gets accumulated in fish from

seiver water

Bio magnificher - visity conuntration

of chemicals (as a puruntage of

body wight) with rising land in

tood chain for I por nawk

Properties -s non degradable, mobile, Upid soluble and biologically active

Harmful impart :-

1) Threat to biodiversity :- chemicals

from plastic, tertilizers industral

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	VISION IAS™
(2)	Russy - from psychological trauma
	proper counselling
(3) Ru	habilitation - mononic, physical,
300	1
Las	nomic - providing one home can't assistance
	loan on easy term
	- alternative livels houd
	- rubrahm of apriller,
	small burners
Lovi	el - restent education
300	- rehabilitate was distrible
1.10	men and children in family bu
	vironmed
en	cully , kang
	- helly home
01	lon as to original
Physic	radine
	- avaid sundary displanment
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VISION IAS	Don't write anything this margin (इस जान में कुछ ना क्रिडों)
this is countrial to stort normal life and currenty at the carbent and	
prevent long term damage.	
3 Reconstruction: - on the principle	
-include standard webs and practices  (19 Hood proofing 1 BIS webs for	
certhqualu rendent building and infra	
- Sustainable Lindshood reduces  Nost usinhal as it 1 tempresss the	
vulnerability and unhanus preparedness	
for future hozards.	
nounded fact to minimise damage and enhance future orisilience.	
and enhance future resilience.	
J. C. Carlos Maria San Carlos Maria	
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ent is personalised for Nidhi thakur(t nidhi14@yahoo.in)	

Don't write anything this margin (24) Mars & rigor on Seath

 Drought may be caused by natural factors but it is turned into a disaster by human induced factors. Discuss.

मुखा प्राकृतिक कारकों से पड़ सकता है, लेकिन यह मानव प्रेरित कारकों से एक आपदा में परिवर्तित हो जाता है। चर्चा कीजिए।

Drought is defining of rainfall from its normal pattern in argin for on extended period of time hading to general suffering in country. Vanation is rainfall is a natural phonomenon (more so for Endran monocone).

Thus meterological drought is counted

Thus meterological drought is caused by natural fouture: 9t turns into a disaster when it converts into hydrological drought (water mourns)

unope, at lucobile).

Human induced fouters that turns drought into disaster: -

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#### Don't write anything this VISION IAS" (क्या भागत है (1) [Enhanced vumerasility] - rainful agriculture - our whinting - overwhelming dependence on agriculture - social and comomic inquity (2) (faully prairie) @ pour water management monocropping, water guzzling crops ( supercore in marathumade) @ poor problehisation - power plants in water-shortye areas, beer industry in maharentha (when - no rainwater harvenly, dependence on groundwater, to natural waterbodis dry, y up du la convouhment, traditional methods of irrigation (tanks) out of uset (3) Deformation, our gracity, (environmental) (dyendahon) - more errate ranfall, increared dand degradation, description All thee feator have significently Visit us : www.visionias.in Call us: 8468022022 Page 41 of 60 us document is personalised for Nidhi thakur(t nidhi 14@yahoo in)

# 44 VISION IAS इन्द्र अवस् हे norcessed the vulnerability of population to drought threatingly food sciently and sound stability. It is in countral to chule this deviations and

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#### Don't write anything this margin case seer at VISION IAS" 15. Identify the areas affected by and the causes of landslides in India. Mention different steps that need to be taken to mitigate the effects of landslides. भारत में भूत्खलन से प्रभाषित क्षेत्रों और इसके कारणों की पहचान कीजिए। भूस्खलन का प्रभाव कम करने के लिए उठाए जा सकने बाले विभिन्न कदमों का उल्लेख की जिए। Assound 14.1. of India's total land orca is prone to land stide (down ward movement of lare from due to growing Ultorkuhand engually Assom Haharashla I arakan mountain lit urrutalu wutern ghab and some anas of Tame Nade (Natival causes) In Northern and N.E - Young mountains - high scimulty Western ghas and Nilgins - heavy ramfall -stup slops :- unbording of mous Anthropo gure () from slope for unstruction Call us: 8468022022 Visit us: www.visionias.in Page 43 of 60 his document is personalised for Nidhi thakur(t.riidhi14@yahoo.in)

	VISION IAS™	Don't wit anything i margin । श्रान्त आरम व्याग आ विश
	- overloading of slope due to built up	
	wastruhen	
-	undercutting of slope	
-	drawdown of large amount of water	
	from valley schow	
-	heavy machinery, road, railways constructions	
	deformation - sud inmais soil	
	saturation, makes slope unstable	
S	typs to be taken to mingate the affich !-	
C	D Inventory of land stides	
	2) Hazard zonation mapping and vulnerability	
	analysis on area band approach	
(3)	Early warning and forceant at selected	
	high rish areas eg Real time londstide worning eydem in sikkum oorjuling.	
9	slope stabilisation - Attornation	
	-removal of dibns from slope	
	- improving surface and subscurface	
Cal	l us : 8468022022 Visit us : www.visionias.in Page 44 of 60	Dist.

VISIC	N IAS™	Don't write anything this margin (ger ane ill age)
- naily, bothy, and - quo and, quotexh		
6) Regulation of h in land slide pron	uman settlements	
Denforcement of Bu Use bye laws and	ildry wdes, land	
Do muhjahm of effective	to of land stide dame	
O) amorenes generalis	m. training, capacity alu holders - enjural	Щ
community (1st	auspordur)	
quotuhnical proc	usis, early warns	200
H	my operation eyster	and
- early narch or - wordenated rupor	d waveleting	
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16. Highlight the reasons which make coastal regions particularly susceptible to climate change. What steps have been taken by the government of India to address the same?

उन कारणों पर प्रकाश डालिए जो तटीय क्षेत्रों को विशेष रूप से जलवायु परिवर्तन के प्रति अतिसंवेदनशील बनाते हैं। इसे संबोधित करने के लिए भारत सरकार द्वारा क्या कदम उठाए सए हैं?

Loantal regions in India automodate

160 million population. There are
portiularly susuphble to dimate charges
due to:-

of proximity to becan - sea level none dure to rusing temperature and thermal expansion of water will disutly effect there areas

as fishing, tourism industry and

port led divelopment - There are
hampened due to dimeh change tourism

ii) Diasters such as cyclones, tourismi

(v) surface water , ground water both susuplible to contamination, salvity

ingrus

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#### Don't write anything this VISION IAS" v) High density population and inheal intrastructure such as oil wells , rynemis, number power plonts in there areas U) Ro Loss of natural protubile muhanisms (Steps taken by government of Endra) 1) Ward From regulation, quetelines - florible opproach with dunhalishing 11) NOMA guidalines for disaster - etubic in Odisha (Cyclim fani) - Early warning system 111) Preservation and expension of margines, countal but plantation, bioskields, willinds, wrat rus IV) unstruction of salve embanlements, sea walls, dune ruonstrution, rehabilitation V) maint unstruction and maintenance of infrastruture - roads, power, communation lines VI) Interested would give management plans VII) Rhu flage brown withcution Visit us : www.visionias.in Call us: 8468022022 Page 47 of 60 This document is personalised for Nidhi thakur(Lnidhi14@yahoo in)

## VISION IAS" Don't write anything this margin (क्षण भाज है व्हुज मा सिन्डें) Thus gownment is acting holisheally address challenges along with insuring dividop must in would arias. Call us: 8468022022 Page 48 of 60 This document is personalised for Nidhi thakur(t nidhi14@yahoo in)

Don't write anything this margincase see it was at

17. What are the causes of forest fires and their effects on the ecosystem? How can forest fires be prevented? Also mention the steps that have been taken by the government in this regard.

दावानल (जंगल की जाम) के कारण और पारिस्थितिक तंत्र पर उसके प्रभाव क्या है? दावानल को किस प्रकार रोका जा सकता है? साथ ही, इस संबंध में सरकार द्वारा उठाए गए कदमों का भी उल्लेख कीजिए।

Almost 65% of recorded forcet are in

India is susuphible to first his. There

have been intercaving in fryung, intensity

and survity.

Courses - 1) Natural phenomenon

which aids in rejentiation - causes friction, lightning

11) human - vigarrita, bonfires,

Jhum weltvation the start tryant

fire

111) from degradation, replacement of

natural front with plontation which

burn servely (the pine), invarie

alien speed such as Lanlana comera

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Don't write anything this margin cover wise at least or Beats

To prev There is no med to have zero form fire policy. Rather, they forus shoulds be properly managed to prevent inhinh and I unintentional fires and ridure their intensity 1) clearly of form thour and ungrowth - chemially, biologically, methorically 11) creation of ditches to prevent growthe (his line) of hore as emalyphen from watern shouts. lantana camara from forat fluxs ch 10) cart monitoring rearly warning and itahin regionse - un of remotishing ground patrolling v) Prevent encroachment on forest land VI) community involvement in prevention and management. Call us: 8468022022 Visit us: www.visionias.in Page 50 of 60

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#### VISION IAS anything this margin दास मान में (meanury by government) 1) creation of fire line 11) creation of water harvestery structure 111) forut five provention and management scheme (FFPMS) IV) MOEFICE- national plan for forut fire control V) International coordination - information from NASA satulto vi) Training of Formt department officely There is a need to improve quality of forms by sout forut management and thus holistically princiting hisis and other deasters. Visit us : www.visionias.in Call us: 8468022022 Page 51 of 60 his document is personalised for Nidhi thakur(t.nidhi14@yahoo.in)

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 Discuss the reasons and implications of land degradation and desertification as major/environmental challenges facing India. Suggest the measures needed to address them.

भारत द्वारा सामना की जा रही प्रमुख पर्यावरणीय जुनौतियों के रूप में भू-निसीकरण और मरुस्थलीकरण के कारणों और निहिताओं की चर्चा कीजिए। उनमें निपटने के लिए आवश्यक उपायों का सझाव दीजिए।

Land deprendation is deteriorating quality of land and description is and familiar and regimes have emerged as mojor environmental challengs facing India.

Reasons :-

- 1 Detorntation
- faulty cultivation techniques 1 over grasing
- (11) excurice use of chemicals in apriculture
- W) water crosion due to loss of
- 5 salivity due to flood irrigation
- (i) mining, unplanted urbanishm and other land use change.

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anything this

(impliations)

10 30% of Indio's land area is degraded and 1.8 million hectare is described. I cading to economic, ciological and social adverse effects.

-> dulining was productivity due to loss of top soil, decling wats holding capacity, dubing organic content and porosity

- Siltation of steen suvers - worsening

flood situation - micros runglement standard planes - attub soil mino tauna and thra despe

- o Hub terrished and aquatic birdursity by loss of habitet

s withbuts to gran hour gas emission

by unlowy should cabon. -s air pollution - dust storme Maning: - Land degradation nowhables is one of the gods. sogs.

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- 1) tro. Agriculture intercropping, muxid cropping, mulching - prevision irrigation -ridge and furrow imgahm, winhur bunding - eproporutry
  - terrace tarming organic tarming - stop shitting autivation
- (1) Attendation
- (1) sustainable grazing, partire and trage
- 10) Desert control graning, tencing is
- 1 Involving local community Land is a valuable and non rymerable resource. It is userhal to prevent

land dyradation and description by

undertaking sustainable practices.