

An Institute for Civil Services

IAS TOPPER'S TEST COPY

RUPAL SRIVASTAVA



GEOGRAPHY OPTIONAL





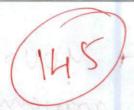


34377

(1195)

Geography Test Series 2022

TEST - 08



GEOGRAPHY

Time Allowed: 3 Hrs.

Max. Marks: 250

Instructions to Candidate

- · Please read each of the following instructions carefully before attempting questions.
- · There are EIGHT questions divided into TWO SECTIONS and printed in ENGLISH.
- The candidate has to attempt FIVE questions in all.
- Question Nos. 1 and 5 are compulsory and out of the remaining, THREE are to be attempted
 by choosing at least ONE question from each Section.
- · 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.
- · Word limit in questions, wherever specified, should be adhered to.
- Illustrate your answers with suitable sketches/maps and diagrams, wherever considered necessary. These shall be drawn in the space provided for answering the question itself.
- Attempts of questions shall be counted in sequential order. Unless struck off, the attempt of a
 question shall be counted even if attempted partly. Any page or portion of the page left blank
 in the Question-cum-Answer Booklet must be clearly struck off.

1. Invigilator's Signature

2. Invigilator's Signature

RUPAL SRIVASTAVA

Name __

Mobile No .__

Date

Signature Luke

REMARKS



- * your enamples to justify your arquements are good, keep it up.
- * try to give diagrams even in 10 markers & vertion
 - * All the Biest

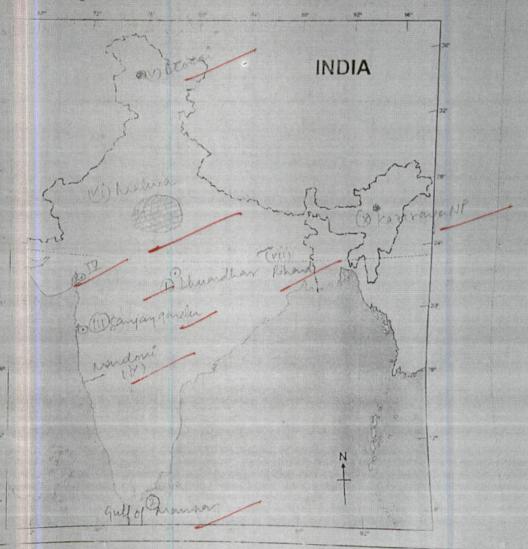
Section - A

1. (a) Locate these map entries on the map and write about 50 words:

Dhuandhar

(20 Marks)

- Gulf of Mannar
- Sanjay Gandhi National Park
 - Bharuch
 - Deosai Plains
- Malwa Plateau
- Rihand River
- Sonpar Hills
- Mandovi River
- Kaziranga NP



Remarks

(i) Bhuadhar falls Is located on the Nas mada solver in the Jab alpur distaict 6 Sedimentary Vindleyon rocks and marble nines 5 tourism e'fe at Bhedaghat (ii) Gulf of hanner - Zone of living for dungoing in Whilliare endangered - between India and Sentanka. - critical coral ecosystem of India -also a UNE so world theritage site of - has sound bor islands - Pambone dii) Sanjay gandhi Koitionat Pash
- pahavashtra (near thanne humbai) - located in Sayahadris with trofiscal -species the endernic hacquige found here evegneen forest -also home to Royal Benjal Tiger

iv) Bharuch

> located mear the gref of kamlet
in Grijarat

Remarks

- petrolem of refinery situated here. (telian)
- area of marine francyression during the (v) Devai flains I part of the Andalah Jammu and kashning lucion televitory -> presently in Gilgit Baltis tan region of I Fertile plains due to Thelun wher useful for Saffron (karewas soil) cultivation part of peninsular triple tectoric division VI) traling plateau - made up of basaltic rocks from the fusione type exception when moved one Remnin Wedspot

- Block soil - votton cultivation

- Block soil - votton cultivation

- avers onen of MP, habarastra, gujanat (Vii) Ribourd Bearer River -on liber Tributary of son hiver tises in Chattis garh - has India's largest Norm- Librard Danne Remarks for the Remarks thindalso plant

CORE

(viii) Confear tills

- local hills but 800 important for
the fourism economy.

major - short snift mest flowing river in water goa water forms an estuary of the Month.

(8) Kenjivanja NP
- in Besam, earth bout of Brahmaputre
- formers for one himsed Phinos (Rasyst
Population)
- temportant UNESO Host ferritage Site

in tuble regions.

Remarks

GSSCO

1. (b) Write a short note on the emerging geo-political scenario of Indian Ocean Indian Ocean comprises of parties between Africa, the Archian Peninsula, India, Lugamar apto Indonesia. Let is the 3rd largest ocean in the 5 inportant Frade route discound by Vanco Sagama. lecent geopolitical egipticance of Indian Ocean O According to Nicolas Skiheman, fall uder ten Rimland' some thus concial to telerine Johal Roun balance. oil of speria = 60/1 of global @ Resource with area is-preserve of 2nd largest PMN organo by 13A. poly metallic nodules for semiconductor (iii) Energy resours in the Persian Gulf region. 3 Tadding the Rise of china in its policy

of piracy in quif region, me of nivellar problems of procession in the region from pakistan.

7

* Allomention fue threat of New great-game", " riling in Afghanistan region in thereat of spinover of food entire from hom of Africa, roof of string of Pearls' and deld from differences (Bia of QUAD to ensure the freedom of nonigation in Indian Ocean Region B Also, highly vulnerable to aimale change due to cyclone and moneons The littoral states of Adian Decan came one of the yought koplation of the world. Thus this demographic dividend has further advanted. Remarks



1. (c) 'Food security is impacted by climate change in India'. Elaborate this s According to FAO Report on State of Food searity and Nutrition, India is approted to see a 12 14%. decline in peroductivity by 200 due to dinote change. Also being among the top 10 vulnerable countries to climate change due to its tropoical location food security futures threatened (CEEW lefext 2030) Impact of Clinate Change on food elevity O reduced crop yields due to refeated due to flood les ky 3.8% in last 2 decades Dereved incidence of pest attacks leading to damage : Eg: 2010 (lost due to attack 3) Increase in the cost of food due to hidden emiron nutal and heath Remarks

AND DESIGNATION OF THE PARTY OF

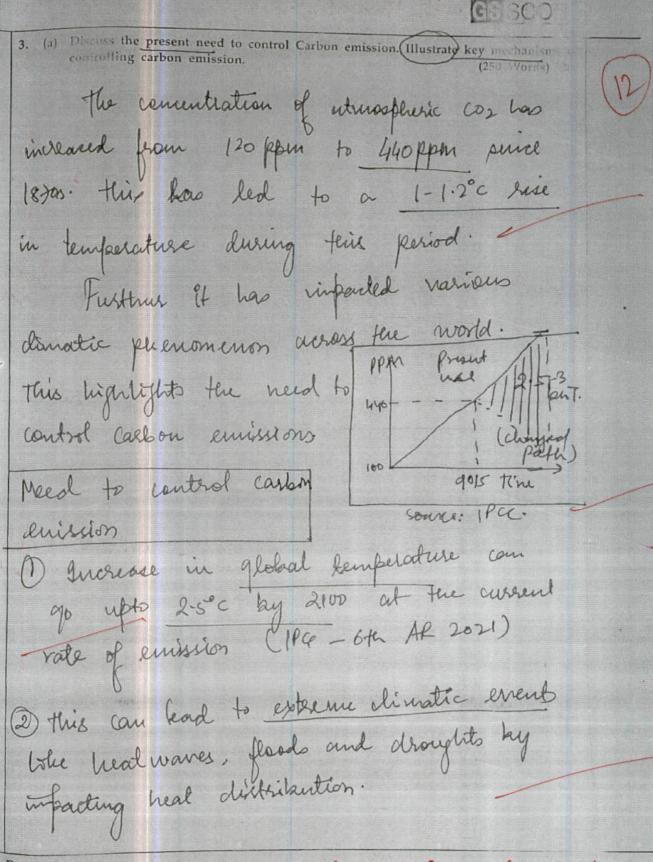
costs: FAO lepost projects \$1.28tn/ahnun hidden cost of food due to environment factors @ Encrease in inequities - aspecially women and duldren as worst affected by climate charge. Eg: 143% of climate refugees one homen and children (UNION Repet) Fludian agricultur especially vulnerable due to lumited diversification and low impation (48%) Presently 180 mm prople undersonshed in India; and extra 35mm can be added due to dinate charge Neled to switch to climate small and diversified gri culture to affilieve Sty Zero hunger of Also mention some inflames of not only Climate change, but also other carrel have load to food intensity ie boilo-economic problems ie poverty, ethnic conflicts etc...

GS 1. (d) Write about the Role of physiography in cross border terrorism. Physiography in terms of the terrain, the relief and clineate is an infortant determinant in creas border terrorism. in madia, hole of Physiography on the western boundary terrorism (1) Minalayan larges Desleep gorges and conyons = leading to Deep valleys of Tridus, the terrors morent Julium etr faithfute terrors morent @ coastal boundary to terroriot routes [2: 8/11.
also easy accept to terroriot routes [entry via Also seasonal prompall in Ladalde Kashnir Japodcon humalayas, leads to infiltration of terrorists whow some Cross border terrorism in North east Bondans and Eastern Sector isatmani num-du mrg-Decom ber-Janua 74- Hime

period.

Remarks

1 Indo My amas border fo deuse vegetation of tropical enegreer 511 forest facilitate & The Monend novement of ferrorist.) Legen (Ho kun Is difficult torrain, this low infrastructure (The last Assan lifle Post = 15 km) @ Indo Bangladesh. Porous border and dinse mangrome and hilly areas of Attom (Sarjeely) restolare etc. tron borden terroriem needs to be facilled by mindful serveillner of borders via dorones etc. Allo add how underwreated phyliography is nver has red to infiltration from Burgladeth border into India. * Add role of parties, marry areasie sir Creek areas being some areas which inhibits cross border terrorism.



4 Add role of carbon emission in posing twoest for ocean evolutem ie Increasing audification, distribing carbon biogeochemical

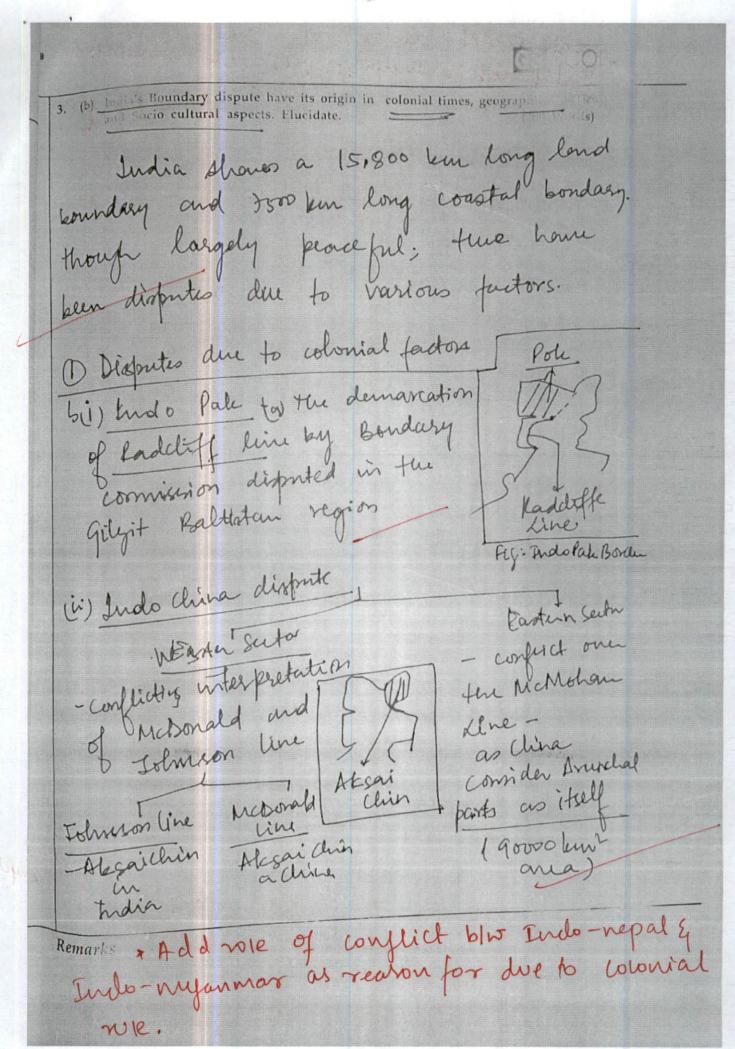
" TAdd role of Increased carbon emission SCORE poring some threats of Zs: Uh heat waves 2022: 1st time temperature reach upt In 2017 - was = 37-2° C Usbam heat dome (3) Excess carbon emission can lead decline in the crop productivity. Es: 40 predicts 12-14% decline in Japod Productivity due to dayes in rate enample of photosynthesis (4) the Rapidly increasing population, expected to touch 8.56n ky 2030 and 10 km hy 2000 can excrease the carbon poofprint. Hence need to shift to emission control. (Key mechanism to condrol @ emission & Shortforms 1 Increasing green cover under Afforestation and forest Atream green land cake Festoration Approach walldallenje Enitiative Cos:

@ suitching to cleaner mobility solutions the ev and hydrogen fuel on they account for 271. of Centrolons el program 30% el by 2030 3) Claim in dustrial technology like use of scrubbus, onycombaution etc (w) ferdonal of already released carbon by CCUS (Carbon capeture and storage) through give some mamples, as Storoge in underground rocks etc. searl in 3) Shift to Carbon newhol works whe Zute etc. noway. which maintain a balance 1 Shift to renewable energy solutions and away from cool bound thermal power plants. Es: Indias kush for lolar Energy Trid under International Solan Alliance-It w solan Rower. D'Controlling mulliane emission (CHy) ferom agriculture ky anti-methamogenic feed-Est Garit Shara 1 by Car. O Remarks

THE PROPERTY OF THE PROPERTY O

Increasing a concentration is also leading to become acidification' which can threaten the critical word ecosystem. (2: 'the blob-70% lors of Hawaiin words). Thus, there is an urgent need to set down carbon emission.

to reduce 2.5 - 2 but carbon by 2000.



prite recent incidents of dispute over abies para la SCORE of border blw SCORE D'hordinal difficulties and boundary of ladio Christoff still applicable 5 1/2 in the siachen area—due to saden as no loc is seen. I placed frontier 6 Indo Nepal - disputes due to river thatweg and cleatine [P. W. Marie pulled - Origin as per dimpodrusty Liver tradia origin as larli River pur repar @ Gir Creek dispute due to median him demorscation demorscation and palestan claim (3) Socio Cultural Asperts Weine most boundaries one superinford and act as cultural divides, hence often disputes arish. Es: Indo- hyanmal insurgury-demand for Nagalin', Topraland of enamples Correcte voign, greater Tripun)

based on ethnicity of Also porous border With Free honement regime (16 len) leads to worthick and injugerry. (3) separatism in tashinir due to close ethnic connect It is necessary to seasone Bondary disputes. freunt exermishes by China in of Indias the frachen one a violation territarial soverigity 2 fimilary add kole of famil 18the in Snienka, due to cross border mening of vinitar culture, Endo-Nepal mahadeli investet. Remark

_1

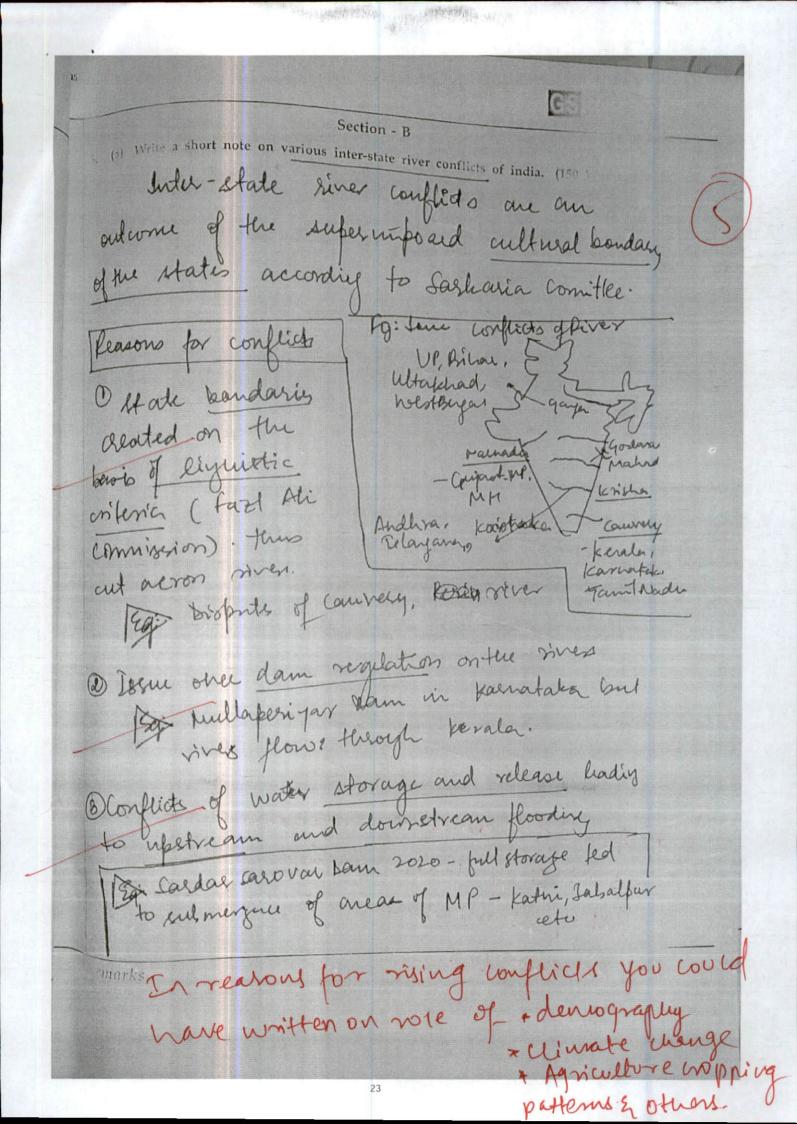
the concept of 'Gross environmental product' that includes 'Ecosystem services' in the ambit of its calculation is gaining traction. Discuss its significance for natural resource rich regions in India. Gross emison nutal (GEP)

sum I to a control product selfers to (200 Words) (15) the sum total of all the universal goods and services produced and used in development. became the 1st state Uttarlehand in accounting. to use this (GEP) gron Environnut green GASP Product Dit only sultants Ott is cumulatine 1 the mirronnut cost from GSP additive impact of environment (com hang redundance's Abeller captures the extent of footprint) It is based on the idea of payment for econystem perios as adopted by ntrono Whe South borea etc. Ha significance for natural resource rich legions in India can be seen us follows

* Define what is evoluttem services & various services given by evoluttem & their provisioning services.

O Estinating the extent of resource utilization and the rate of use this plan for strategis to conserne resources. Ta: Coal Reserves - in WestBuyal, Thathad, Jood expected to last fill 2070 (even @ leader accounting of prosessem services can help in proper of p and GEP estimation turs planning the macroeconomic indicatore of inflation (dere to over use), fiscal deficite te 3) The amount larned under Gtp can be used for local area development E1: Tribal oneas of chattisgach, odisha can have better connectivity under Bhalatmala Porgram. Whe infact of vocasystem services can help to industand the ecological fortprint's rod white PHDI = Plantary adjusted HDI to arress at the photo arress at the photo arress and the photo arress and the photo arress at the photo arrest at the photo arress at the photo arrest at the photo ar of the anen adverse effect of environment on

B) Planning for resource vich regions bersed on sustainble watersted approach for holitic dentofmed the environmental reconting can also help in lenging eastax and like levelsping conallet mechanism like that in thina (caston borders stemp)



(b) Diversion of water for agricultural and driving water purpose Est bangalone fine dispute owner convery Black of official data on sinese and delays in litigation Year Carter 1 According to Saskaria and Punchi comittee, Solution interstate forum to resolve disputs. (2) Recent amendment to The state Water dispute tit which nadates setting up of fri had within 3 months if mediation facile. care must be taken to resolve disputes by medication as rivers one lifeline of all the starts. * Allo odd done of recommendations such asbringing water under comprrent [W-, as mentioned due to in milior Strah report.

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(b) The extensive geographical spread of the country is conducive n social milieu. Explain. the geographical spread of India from Kashnir to Kanyakunaari and Kayastlan to Arunostat has created regional diversities in soial mikan. this has led to small podets of India in large India. 1 legional diversity of North East bo lich to bal diverity

(20) of tribal population for

Kara Report gitte making (Assorm-Luga) Reay & Mizo @ cultura -> Them farming, B light hulls of liferary due to missing Of Diverity In the souther fast 1 wanty 's ravidian' gupunt of food ation parathit Done porto the Todas, Trulas exist Kannada X Tamil Todas, Trulas exist realogan De plantation economy + By: laying of confe Cernia Lector hulo sergalore * montion how geographical relief have helped in framing fuis divarity ie sole of vivellyan mountain hystem, North last montains bystem il garo, Jaintia ? khasi hirs in the region.

3 Wester: gujartha 29 @ Norther Mist -> Transhimouf 13 O sesest torrism activity & 3 Dryland oness. low leuls (3) Tribals - geneally of development due to empowerd ey: Neine. difficult reach (3) Social diverity is North & cerdral Varget tribal belt -gonds, knonds, 4 Hattijah LWE one as - insugercy problem Thro lends of development that sich minerals (80% of Feore) the development should arin to connect all these regions to actione horizontal unity and integrate the deonony.

and do you understand by Environmental Impact Assessment Environmetal Infant Assessment refers to analysing the ecological postprint of the developmental projects and teneir affect on socio economic Endicatars. It was introduced meer the convironment prolection Act, 1986 based on US-EIA EIA procen inutires Screening - Scoping - Public - Appraisal - smani. bySEAC Cathand defining Organized Pa projects (State Appraisal) E: Feard Steel, sper to Sonatration, Reforma comtee and ampour EACad Poweflant affize Centre - heed EIA Cy: Vedanta Niyanjini Plant 5 sc whild gram sathas' objection to the EIA process and hence Vidanta was not permitted for mining sawife

dimitation in Adia O lecent Amendments to the EIA Rules have Seduced for several projects E: hydro pour, midea pour etc 505 Deduced time for public hearing from 45 300 days Downamenen in citizens about their rights (9) Also does not talke not account the tribal linelihood on forests (xaxa report. 801. Oftribes affected due to faulty EIA) ture is a need to infroduce in the EIA process strong checkes through an independent regulator.

According to MOES Clinete Change Assessment of Indian Report; India will be among the top 10 worst affected contries due to global evanning. & Expected increase in temperature of India by 1.7°c can lead to various Impact dissuptions good Despired melting of seindulush report lumidayon glacier - We keport report suggest 1/2 of glacier to be glace = ladahl rapid retreat Lost by 2000 Easi of ladath @ Increase in extremes of weather lengtall transformation presented and disasters fami | words

Case: Cycloro fami | words

- Case: Cycloro fami | words

- words words

- rapid intensification

- rapid intensification Number of cyclones m Arablan seas. 3 Duckeard in few sea level by 3.6 mn/few can lead to coastal submergere

4: Lunderborns-expected to submerge 60% by 2400 dut to 3.2 mmy gen (i) Changes in ocean chemistry and acidification Eg: Danage to corab in Calshwidelp.
w 56% damage in last decade Source: UNEX teport 3 sedine in agricultural productively pushing 35 mm pople. to hunger by 24 (FAD) To ones come this, India's Norti nal Action Plan for etimat chang (NAPCE) and its & rulmissions can help. * write also on origination pattern surpareted by global worming, Obtbreak of p'andemics, Change in Selflement patterns etc.

rong was a first to the same of the

& Swith to biodegradable materials like jute bag to subscript the sigh use Plastics. E: SH4 Souchiraiya worm made jute bags 6) Electric Age and "Pyrasol' projects to buen væste at 500-1000°c - Chatedy Mag & constrution worste) 3 for Agricultural waste - local Veruin compost and use of microthial PUSA decomposer can trelp. (E: Purjab - Stubble Essue) India needs to alift to a Circulate economy to fachle this menace

L coming years. advicing Andia's QU'AD com help in objectives as followsada Japan D'hedure the supply chain defendence on China as 80%. supply Sustral of demiconductor imported. fig: schi unde que Deschel the China's growing tij! Scht unde gus footbook nts through the Excepting encirclement Squadar 5 and string of Pearls' policy Dibouti /windowtoty thus affecting the feedom Chinas Stringe in Indian brean of nanightion. (3) Utilize the new markets of the South-East Aria like Philipines, Indonesta, Iralaysia as they have been Wittins of delst trap diplomany of China. 4) QUAD also las periodic untitary exercises like the relation exercin - which can help in tackling the issue of paracy in the Comalic LQUAD, helps India maintaining its role as net sewrity provider in the area, It respon

der-in cale of need & Also maintain india's

note as plag beares of preedom infravigation

region and halacca strast. (3) SUAD alliance with help create a South-South's collaboration of the economies rather terms the traditional 'North-South'. 6) Innobrement of plager the Us, Australia com stempthen India's military capabilities also. however QUAD was Las some ilsues O often perojected as the Asiam-NATO' lay Russia and China to create geokolitical fension 2) QUAD does not have a formal structure and mainly exercites at informal dialogue 3) the new players like Uk, france can challenge and can lead to neo-volonialism. dolomory. 9 often seen by experts as a strategy of Us to use India against its economic authitions. * Also mention tack of idea of concentral. view of Indopacific region, while for USA it is India & its eathern region, would often like Autralia & Tapan have different views. 4 Allo only suction thaves boundary with

Judia has however maintained that
guab, for India is not a military alleained
like NATO.

For India, QUAS serves as a platform
to raise issues of piray, cylon terrorism,
Freedom of Nanigation as per unchos in this
Region.

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cy of Glacial Lake Outburst Floods has increased p e. Discuss measures to reduce and deal with glacial habe outburst floods refers to the andden breach of marainnes danimed glacial lakes within a obost period. It leads to intense flash flood in a vegion According to MOES, the Stacken Standen frequery of Glot (Glain lake outourst floods have increased Prayag - Kandrijnya Prayag - Rangert due to increasing temperature glacer - Ranger of Dunalayan Region by 1.7°C fy: Some in last decades Secret reasons for increased GLOF 1 Rapid melting of funduleush thinalogan gladers, expected to decline by 1/3 kg 2100 (World Bonk Assessment) D Increased whomization and slope concretization in hely mean me to unsustante tourism. * Also mention thereased deforestation in the region, Improper hope management in the region.

Es: Shumla-Manikaran Glacial Blood in 2013 due to heavy townist footfall Defampend Plantation and heavy construction leading to hear done effect and glacial pod & Es: Chamoli Poner Plant in the glacial enough areas -> lead to heating and Glop According + MoEs, gloss can be predicted by proper hunitority of glacial lakes. Stelps to control 1 Hazard Vulnerability zoration (i) but bonsed mapping of the extent of flacial Calses. s lake numbers delse docations. (i) Planning of celtlements array from such withal zones of gender and age group to effective Ababititation Kanning

3 Periodic Apurping of water from the glacial lates to prevent sudden breaches. 1 Some structural embank ments and bunding 8 aroud glacial lake B fully Warning lystem based on Ensemble Frecast model of the and USA where probabilistic analysis of bloods are done According to Prof. Talaas, it is necessary to shift from what the disenter will se' to what it can do in the pranning.

e demand for the creation of new states in India Indian federalism is an enothing federalism Presently, it has 28 states and 8 www. territories after the latest reosganization of January and harden of Danan and Sin and Sadan Nagar Hameli. however the have been various demands for creation of new states (Eg: Statehood for belli) demand for Bodoland eti). heasons for demand of new states O Better administrative efficiery as maller states one easier to govern with limited population Demands due to special status band on ethnicity and culture E: North East States dumend. 3 Dunands for greater auto nony as far fluged from the mainland Ey; Union Teritory of talestweeders. 4 Also add sole of some other factors regional Intoatome je manaphisada, vidherba being peripuerry for core area eq mumbai.

or some new states. The asymmetrical federalism, hence many win territories with legislature also demand statehood &: Delhiu demand. To assess their feasibility * Alfoadd writs of new states roleof Dinalla states , taus better to administer. Small latel in Diforque decentralization and connect anwing proper to the local assiration. growth (B) Centrepetal tendencies of the people with pore weaks n-at requiers cutturally conquent states.

E: relangana split from fradesh Intervals Dopportunities for growth of regional parties & Improved divilipment and focussed toital welfone Eg: Haskhand, dattiganh. Trouverer, term are cotain challys

Or merene in final expenditure

(s(a) Sue to whole new setup of an

essentine, legislature, , bureaucray et (6) Dedine in share grom divisible pool Ei: 15th Fe Report 42% -> reduced to 41º/0 due 70 UT of Gradalah a January good @ com not gnacamter better dendsfourt enougher as: uttædkhand 146-avis UP- still taggard in duelsfourt @ Com still lead to secursionist and insugut ortivitis. Etel wing Extremism in Thousand, Chattisgonh. D'Domino Effet from seneral states Creation of new states does not autonotially enlance governance. Reform to prosent setup must be brought first. (National Commission on Constitution Report)

8. (a) 12 secausal factors behind soil erosion. What conservation activities (25) soil erasion refers to the permanent removal of the top soil (according to Dukocheir). It lappens when the sale of removal of top soil exceeds ten raile of formation. Soil erosion happens when the -Derodalishing of the soil increases due to loss of cohesion and weak underular extructure @ brosinity of the agend increases due to lack of interception. According to UNICOS Eddsal Land Outlook; in · Causal factors Inda 20 20 GTonne erosion/year happens due to water - Alash, will and jully evorion. On the contrary only 2-3 Otomelyen due to wind. b(i) Reduces the kinding capacity of soil and hence increased evodelility 1 Deforestation (ii) the water streamlet interaftion is reduced teres escrivity increased. * mention different types of soil encion

* mention some major trends in pattern of soil evocion across India.

+ mention role of grazing & plantition in why regions. Idea has lose 5-31. of forest come since 2000 (isto Allas). (2) In billy mean, "Thurs' cultivation and cultivation along slopes Es: Apple floutation (i) flood imjation leading to erodon (iii) træssine ferfiliger application, increasing soil fratritity. Eg: Hundayan (ir) Onegrazing by aattle in the pastures Bakarwals gaddis (3) land use changes Rapid unbounization leading to concretization Slope modification in lidly meas. increased aform (4) coastal crosson due to surge. [3: Cyclone fami - 10 +2 mits high single - WB wast > most eroded (30°/2 To Conserve the soil A structural measures

B construction of kinds, embourkments also

tue floodplain faming in addressing the inve.

@ Use of stone pitching, wire netting on boll slipe and triped and tetrapod on wastal areas. teorenen these one temporary colution and costly also. Case: Lillen (B) Papro-economic Solution Sargton 1 Serial agricultural provetices bo use of micro imigation litu -1st organic state drip and sprinkler. (99% efficy -reduced erosion due to westerhed (Contour playhin on hills approach. (Natural/organic farming to reduce soil depradation 2) Watershed based onea development to restore danaged land | Case Earline -Badland Sy & Blind, Morera, lesshoper miani Colh: Dillet farming, flattering of raine topography. (3) Kenolutionize the unbern dure - Blue green with a deoblanket! and geofertiles. 3) Afforestation and Forest landscape Restaration to achine and Increase in 5 mba forest Cour by 2020 (Green Endia Milerian) Remar of Alloadd role of mulching, Entenive cropping, or mined cropping, role of Agroy roual forethany in addressing soil encion

CORE India can use the traditional dwellers of forest areas in loil conservation perograms.

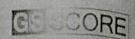
(Eq: the sacred groves idea) this can help dude the land degrant degrandation

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8. (b) Generaphical divisions have led to federalism in India by helping reciple distinct language and culture. Illustrate. Geographical divisions of Endic by SP antherjee wireide with the Gederal structure and helf in creating distinct language and authorie. The Desert and druppend Rejasthon and Gujarat & Desert formising Gijanata puse of tankas, Badio for Rain water & Colle cutture -Dient & Oryland @ Kaenafabra - the malrad and haidan Ghumars Kallelia 5 Kannade lagrage > Usturig - lotter wear 5 Festivats and dances - Kathakali, The Himalayan Federalism

CORE ladula-lold James UT desert Jammu Parist cultural centres -Vaishis deri Silkein Hundby Utahajad ete hiddle I Fused Shinal's - lower Bhotias, lepelas, Kindayes Transhuman, - transhinaci Thum (8) North East federalism Asurachal Nyishitah harrow chichen Nagas (Naga Blum) uestidos Lughalaya simila to ippp' and Lustrai tills Gaso khasi Jenifia 1 the north Prairies and central fightends

Based on last west sonation of garge plain 6 Central highlens -distinct from plains raised pattents Mp pativa Plateau Thalkhand - Chatticgarh - Duy, Bastar rightend tarli lata 9 Hazerilay/ Ethe coastal dinsion Konhan J mahangh utkal Loost Jodisher Constal states malaha Fichenial (vas Mands. Calchindup —coral island thus & dia's & Audeman Volcamic federalism has Stroy roots in the islands. glopodphical divisions. 4 here you could have also used factors of culture je tribal culture forming departe division, Also could have used factor of language et as a batis for division of federalism.



(c) are earthquake itself is not the killer, but it is the unpreparedness among the society, in terms of inadequate infrastructure, which kills thousands. Laborate. Parthqualre is a catastrophie disasta which annelves sudden release of energy from the earth. It is often a secret of plate boundary interactions and can happen at all 3 types of boundaries unvergent, divergent and transform. In India, according to GSI- 54°/0 of mea is easthquake prone. fig: GovAhquel 2000 & Earth qualite itself is not the killer 1 Earth quale is a hazard and a natural out come of earth's movement and internal structure.

However: | Hazand + Vulnerability Disasta - Socio econnic factor this can be lomof seen from the - failly infrastrus case of Takans. (ses in the Volcanic King of Alhough it Fire in the Pacific Ocean where >80%. of earthquals, occur, the casualty is about 8 Zelo. This is due to sound infrastrutue I Problems of inadequate infrastructure 1 Improper sonation of 'weak rosus' and fault lines' and construction in high serunic rose @ lack of strong foundation and piles beam structure to resist the quale. (3) Slope destabilization in helly one as and thus the unconsolidation of evils (4) Dense conjusted infrastructure, increasiff
the strass on lumited onea.

5) Dam borsed hultipurpose Valley- leading to reservoir induced dismicity El. Tehri Dam Breach. [8teps] > 1) [Kazard Gration] - Granes, magneto - Tellinic Sarrey Ø stronger plinth t Revistent materials (3) Drills for awareness] It is essential to improve the factor of safety' for Earth quali proofing * mention framework of gendai National disatter prepardenells, Zonation mapping of hizards assome of the mealwels.