

An Institute for Civil Services

IAS TOPPER'S TEST COPY

RUPAL SRIVASTAVA



GEOGRAPHY OPTIONAL







Geography Test Series 2022

TEST - 03

135

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.

Name RUPAL SPIVASTALIA Mobile No._ Signature Rufal 1. Invigilator's Signature 2. Invigilator's Signature _

REMARKS

GS SCORE

ROH NO. 34377

GS SCORE

Section - A (a) Write a short note on Temperature Inversion. Also discuss its role on local economic use words like Hegat ve capse Temperature inversion refus to ten opposite of pate for morned lapse rate. In this, with the incread in temperature altitude, the temperature also increases. scurface = heating during day
inntrior = clear cloudless day
at night for heat to Condition for ponation of investion = calm histogental winds. pent & Helpt invenion/ due to rinking present aloft ligh pressur aloft high pressur at the tropopause - Temperature increases du to 1 in ozone Temperature inversion can happen Valley Amosphe seas land & Charaction of (ladiation) air man represent these phenemonous using Remarks

diagrams.

dupart on local economic activities 1) Dend fog fromation affects 5 crop yield du to frot bile 5 Transfertation issues due to fog good versely tog in a good versely tog in a ground versely tog in a 2) feduces done formation as air does not rise and thus affects weal ranfall Es: Low larfall in Ratio ceason com affect or maturity Er. Grand Bent - Mix of warm guf Inversion is a ratural phenomenon and thus care must be talen to mininge hasuful - Also mention begit of these for yemen coffee cultivation. * Ausomention these are reason for worldering of weather in Delhi et.

Remarks

4

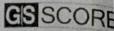
(b) Write a short note on Urban climate Whom dinale refers to clinatic change in aturnenting How of dense unberigged regions: they one entreme haraderized by high temperature and hunidity. Weather Chonemenon Urban dinate can be undestood as the free also firmation of urban head doners. face bestorn head done severe colda precipitation Day temperature Vs. final temperature: 3-3°C D higher Bowen Natio > cermite whom or Takent heat upto (5e - 65) = showing warning of cities. important aspects of usban dimate O Whom head naves due to shoup temperature Ex Selhi head wave = kemperature as high as 50°D - prease cross week this it might be around 47°C

5

(2) Urban dond burst to stedden increase Es. Shumba floods 2017 = due to hydre -towist footfalls also mention popular onle uke banquore froods of 2019 or (8) hurban cold names due to weathering of heat done in winter as rapid cooling of concrete structures. Estata Warre in Canada -> Wealter vorter - low temperatur history climate's understanding will helf in hazard planning and mitigation. How of supercomputer can help in climate prediction. *Don't make mistaket like around so'c observeb et...

(c) Chernozem Soil chesnozens sefer to the Peolocal soik, rich in blium' found in cooler temperate zones of the world. from ferting in Chernozen - appliary action in the soil as lever humidity -glegification and humpication due to cooler climate - forming peat and potassium glamonte O Chernozens are a type of zonal soils affected by clinate futterns 1 they are found in the Prairies of worth America and steppes in Emarian 3) Towards the tropics they are also called 1) these are black in colour but unlike Hack Chestmet soils. which are formed due to weithering * mon there distribution in word map. Remarks

7

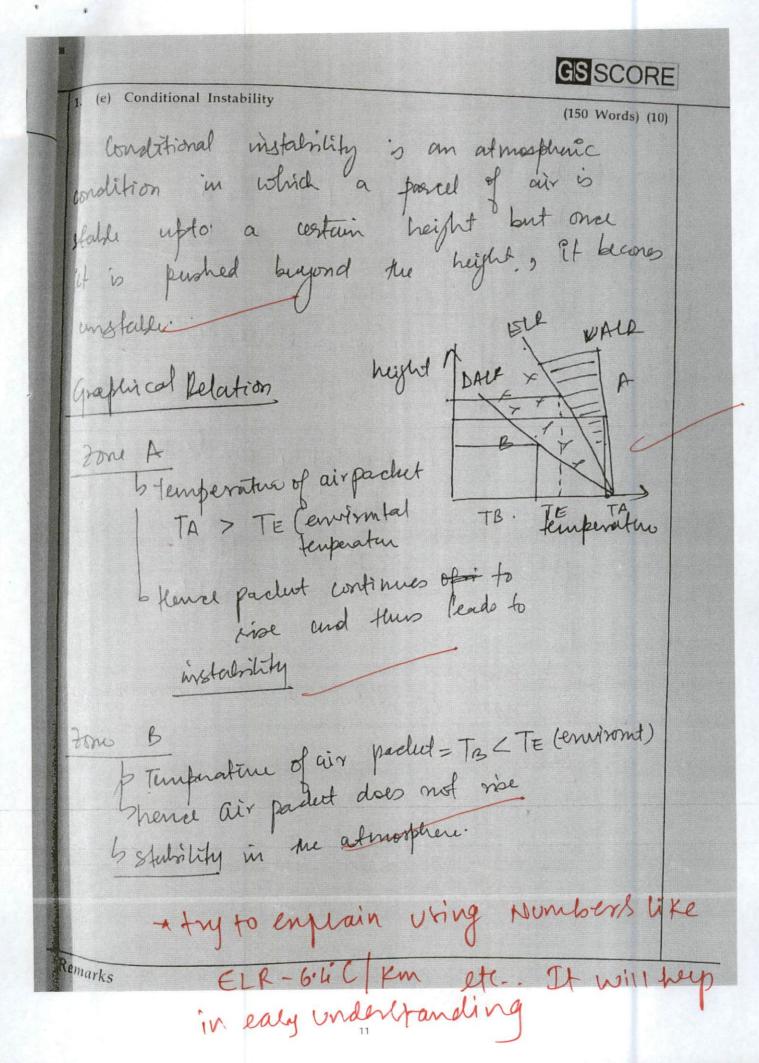


(5) Chernozins Nutrients -5 organic norther 3 hours 6 suitable for cultivation of and addition of some fertiliques. Hunce form the grandines of the world. (Es: wheat farms in fraints) Chernozens are thus representative of cooler temperate climates. They can celso be found in cooler temperatures regions up to 1000 mbr hight.

(d) Write a short note on temperate grassland biome (150 Words) (10) the temperate grassland biome is ad one of the few largest bitomes of the world. It is distrubited in the latitudes of 30°- 45° Nand South aswel & Bush Downo fy: global Dietri bution (thurstayollmatic features of the bione-1 lamfall 75 100 cm/anun D'emperature: Cumir= 20-22°C Winter 2-150 1) frontal lemfall meas. (subtropical wentury Zetetream) Mutrient fond in the bione soil - lich in perty deposits due to cooler climate - can be used for extensive cultivation with use of furtilizers Remarks

A Proposition of the Parket

III gran type -- short grasses who Alfafa and Lucerie can be found in these grasslands. I' Due to large scale continentality, can often lead to extreme climater in the instruing. I) Comparison with Tropical gran land hooden. Tropical temperate to tropis - Annal range of Temperature shigh lanfall = 110-150 m/8 - lamall = It - 110 cm tall grasses. - short grames Hus temperate gramlands offen a transitionary zone between the tundra biome and Proprial of Briefly mention the biome algorithms with found characteristics of velds, also mention there economic lignificance like Inivested sanching practices



The second second

How sfability converts to instability? 1 When the packed is lifted due to army mechanical barrier, it begins to love latered heat of condustation 1 temperature of faciled thus increases and it continue to viol-Afmospheric conditional stability can be used to understant the fog formation in ones of prographic barrier. It also affects the temperature inversion in the stable a Good answer * you have knulvred your answer in a fair order



(a) The twenty first century has witnessed various outbreaks of new diseases including Covid-19 which threatened human and animal health. How far these diseases can be associated with the rapid habitat loss and deforestation. (250 Words) (20) emarks

" and the analysis of

2. (b) How can ground fog is different from advection fog and steam fog? (200 Words) (15) Remar. Remarks

		GDSCURE
Discuss the factors affecting necessary for the generation	g wind direction and speed. An of katabatic winds.	Also write the conditions (200 Words) (15)

(a) Extreme climatic events are on rise both in terms of their number and severity in our country. Discuss the major causes and vulnerable areas in the backdrop of National climate vulnerability assessment report. (250 Words) (20) According to the National Climate Vulnerals lify Assistment, Endia is now among the top 10 most vulnerable countries due to climatic grands. this can be seen in the rise in intensity and frequency of extreme events and follows-Dusban Bloods. causes - O change in landuse pattern due to concretization of ground -(3) formation of urboun heat chimeye due to industry and high rice buildings (3) Clogging of storm and sewage drawn Chennai Floods 2018 Areas-- Routfall 160 am in 244x - Keany duriny areas like Medinam Adayar rapid ustanish humber, Chensar, Shinle du to change in From built up of urban moldiology. F41 Usborn heat Ren

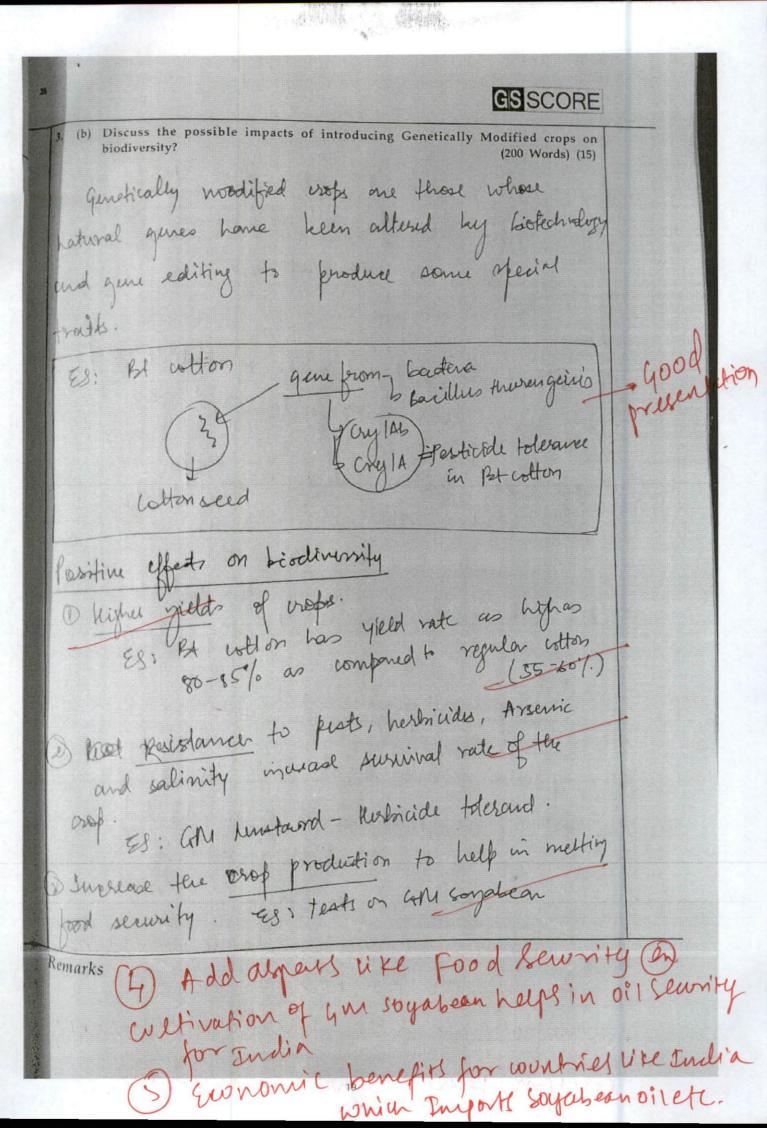
GS SCORE t hords in fleodplains O courses - flood plain modification affecting the scaling capacity 5 Interse rainfall due to clinate hauge convectional cells. 1 Good 5 pains manyles Areas -> floodplanis of large silted siven like ganga, Januare, Keil and Brahnesportra. (ganga-Brahvar Case: Desam Cloods 202087021 Yahura Ram - heavy rainfall due to delp depression A18=2. of sediment load III Tropical Cyclones Denne > 6 Warming of Arabian Sea and Bay of Bengel at 1.70c/decade Uniques than dobal average of 0.7°C IPCC SMAR) @ formation of very severe yelones and rapid intensification in syhre. leurce often 2-3 cyclones in a year in coastal areas. 18. 2021 - Tauletae, Amplan etc. Remarks

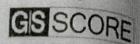
A STATE OF THE STA

Areas. - Eastier only BoB wastline kut now due to warmer Shrock Analoian sea, west coast alox Mulai umyelox I leat Wares and cold Wares had have Cold Name (i) Interne isld winds Causes -1 below heat Island du to subtrofical westerly effect > increases the detream in the bowen's ratio mosthern plain areas Arreas Arreas - All dinedy populated whom centres and - Entire northern plains and Minatayen areas we that of Utaraldond, Steben, rural fringes Es: Alivas Lojastham? himmoral etc marximum kup > 530 I landslides in Westerneghats Course of towertial fourfall (>200 cm day) Is slope modifications of Western Just 6 Dam hismanagement Proper hazard Valuerdsitity Assessment of areas is needed a Also climate prediction systems the Pratyush at IMD Pune can help in hitigation messers

Remarks & very well written & good presentation

awng with tall litudies.

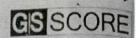




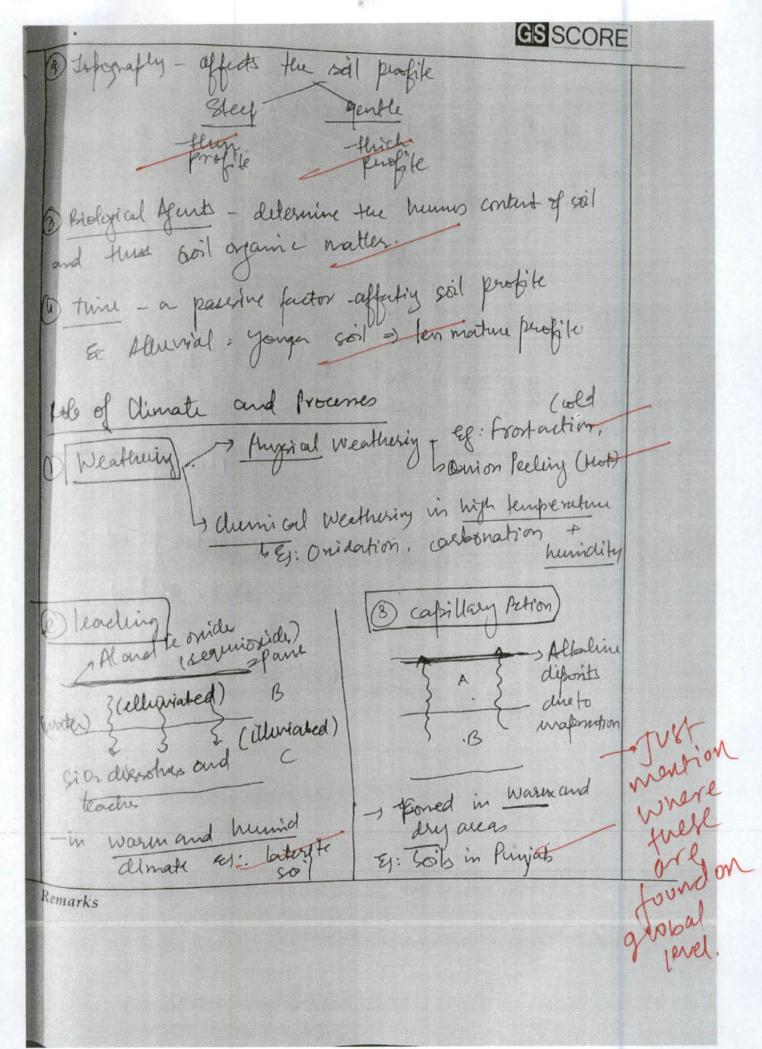
les however researchers like that MS Swame the risks hathan have also pointed out to of introduction of am crops-1) Affect the ecological niches of natione crops by taking over fereir functions and zones D'Affort the regular succession chops
Es: Legular cotton morthures in about 6

184 cotton - noture = 3 months B Affect the motionst ending of the native Eg: can kad to terminator seeds which have no further use in nutrent formation (b) competition and exclusion of notine ofercies of crops. ES: GM chana is Ling departed as est can lead to extinction of hatine chara species a Genetic divertity relilieure would be Impalted & monopoly of field technologies only be werren pen got world wontries.

GS SCORE Also the effects on human health have disease not been assertained to well - fear of disease in humany (6) can also kad to formation of superbuy and resistant traits. ESS for cotton - resistence to fink Ballworm in Yavat mal (Mahansantra) Any infraduction of any CM crop mund ix done only after peroper Environmental Assessment of the crop. Remarks



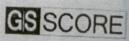
3. (c) Discuss the major processes and factors involved in the soil formation. (200 Words) (15) Ba Soil formation is a slow process which is an outcome of various processes and factors Some of these are active and some passive. Soil furning Processes hood part of Farent Material Jeassine 1 Jacobs Weathiring Dleading_ Biological Agents Jadive > 3 Podzolization 3 Time = passive (E) Nineralization hole of factors 1 Parent Material of decides the soil tersture Es: granific roch = coarse Boraltie = fine Soil minerals bæs: Fasaltic Island Coil. 800 du to mutient in parend vode es: Led soil due to fers le onide. Remarks



Plad toligation of A type of Leading (Hilly reas)

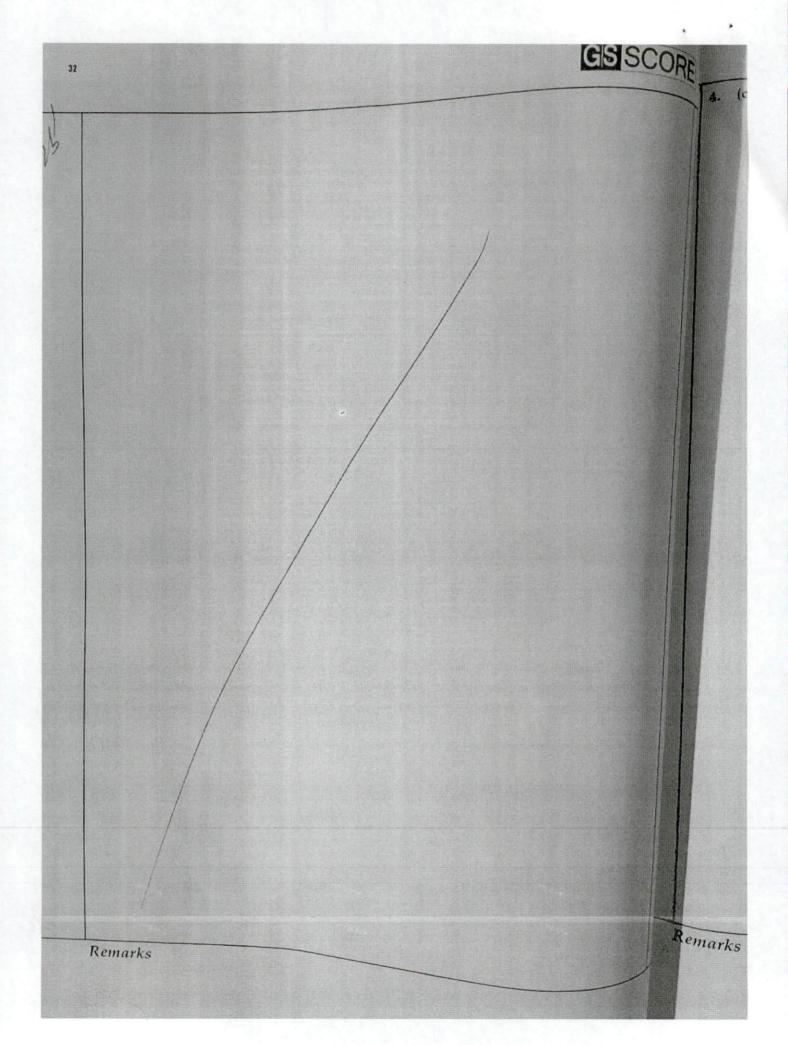
Cool and mother areas (Hilly reas)

Acidic in nature due to chelating? Es kindlayon coh , due to fix and pine @ fleyification and himsalization Sead flegification Partial Runeralization phronganic - latassiun > Peliase of () glauconite N, and Inhead Sgreen father Eg: Karrisoik m 5 competity dicomposed Kesala Roil though affican to be a static entity is highly dynamic in hature due to the Process and factors involved in formation. Remarks



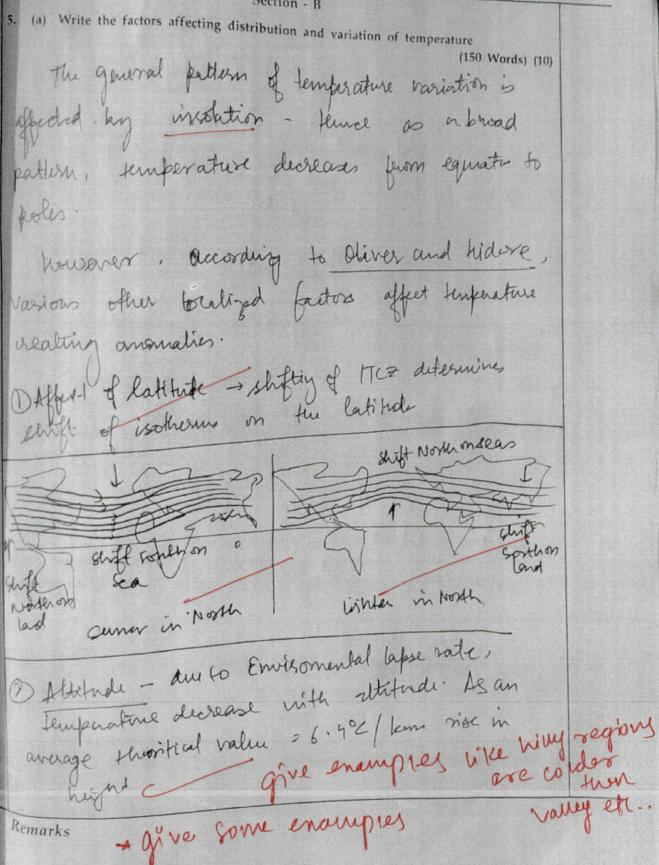
4./ (a) Bio-fuels have the potential to fulfil our future energy demands. In this context identify the different biofuel and also analyse its viability in fulfilling our future (250 Words) (20) Remarks

A STATE OF THE PROPERTY.



4. (c) Discuss the Thornthwaite's scheme of climatic classification. (200 Words) (15)

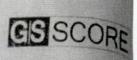
Section - B



representation GS SCORE (3) Continent ality - Checuia 5 extremitis of eeward lemperature. Lagive onamples of - noduation delens like gobildue inentality due to seal land (land world differential - Nature of land: tigh heat capacity and lesser Pusio redistribution wereing read googa (landoched - hypherhouseastan) @ Winds and arrent -affect the local directe OEg -> off share winds = cooler dinate - on shone (ii) curents - modify the ouan and coastal Etimate. Er blann Guy Stream moderate Murmansle Port of Russi Port of Russia Also land use partlerns changes affect the temperature of aplace Remarks

5. (b) Write a short note on Collision-coalescence process of precipitation (150 Words) (10) Collisson- coalescence proces by wake helps to desibe how condensation and forcipitation interlinked to each other from growth of droplets Smaller conducation collision (wind action) droplets in Clouds Not beg enogh to fall as pscipitation > flearry moughts - fall as precipitation >0% % > Velocity and ()] Bernoullis offert grow in size by coalesing with atmosphine moleture.

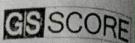
this helps us to understand that -O pot every clouds leads to precipitation unles the water droplets you sufficiently D All precipitation has its origin in clouds. Another theory by Bergeron explains the encipie precipitation of la organis which this thoy does address adequately. 7 Good Ewell Houtwood onewed



	(150 Words)
	5. (c) Polar front theory (150 Words) (10)
	Polar fronts rufers to the fronts formed in
	by higher latitudes du to many
	air mass sort from
	warm continental air mans from sopre
	this leads to the functial / cyclonic rainfall in these regim as per V. Jerkens.
	rainfall in heal regim as for
	formation of fronts and frontal Kanfall
	4 warm > >
	wood - Low Pressure cross sectional
	trendy view
	to alof - cold front
1	upper tropospheric chases the
	westerles wasin
	transly /
	Frontolymbe Gold invesion due to
	frontolyme and working invenion
-	
	emarks ordunion ordunion ordunion emarks
R	emarks O Frond

GS SCORE these polar fronts are found due to two types of air mans Is cold = Arttic, Siterian, Lundian 4 Warm = West Derian, Central Drian, Califonian air non. India due to the meandering reture of phoodenamy's Rossby waves and Jetstream formed at the boundary of these fronts. They thus being hinter mediterramean vaniful to India - briefly mention some of weather patterns associated with polar fronts 4 there impaces inplaces like American Continent. Remarks

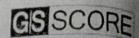
STATES



(d) Discuss the major causes of soil salinity and alkalinity. Also, suggest few measures to treat soil salinity and alkalinity. Soil salinity and alkalinity refers to morease in the salt content, farticularly fordium soit salk, in the soil " they thus white efflorescent sall pans at the surface The process responsible for formation is capillary action which leaves back the salt on soil upper horizon-A: O Over irrojection and flooding bring up salt to the surface and the water evaporates Deschied water agreementare in the coastal regions lead to salinity due to ingression of marine water ordity met 1 Increase in directe due heat warres and desaperature which lead to loss of moisture this there soits are also known as found in Endia, especially spreen revolution

Bell-of India.

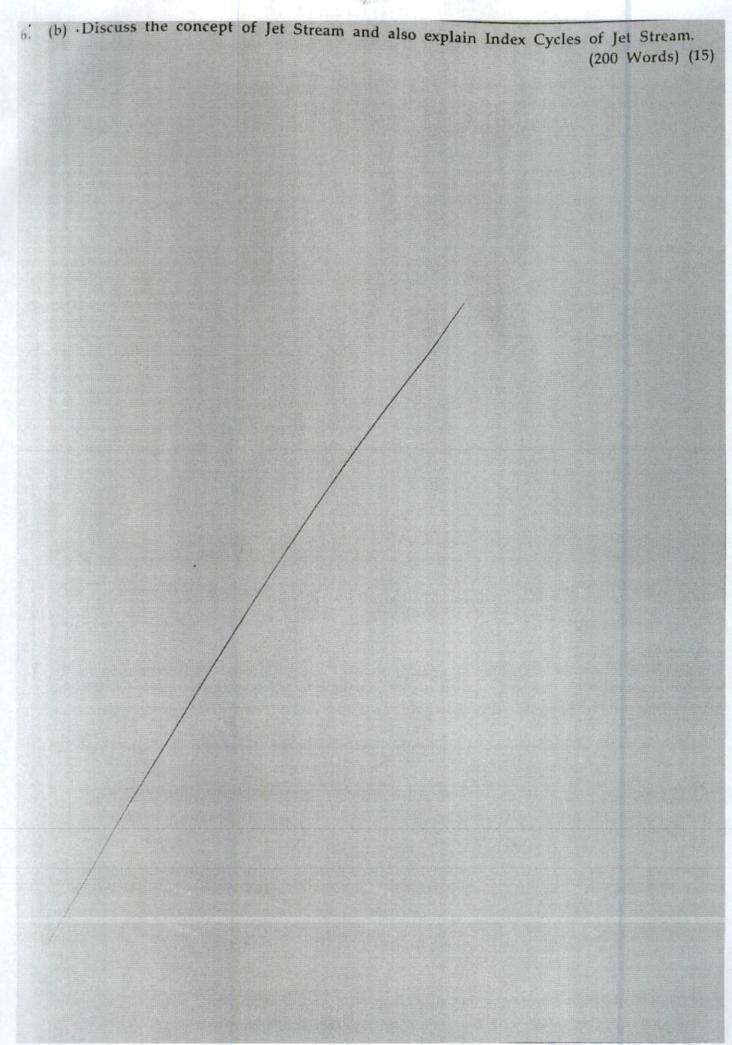
GS SCORE India. femedial heasures Strutuel: Addition of gypsum to reduce the alkalinity and nale it switch for O Addition agriculture 5.5 I heavy addition of prohwata (2) Ca ralk left back = nudrent) -6 6 seepage of Na salts via underground drawing Agro reononic measures good aspert O hiero imigation festingue tile Drif and a home parding good to hotive spainbler to minimise flooding Montiongort Scherne Doublivation of resitant plants like Catheirl Reed for reclamation of soils Wirch Endia has launched 2) ainstrument crop choices to suit the local ildaphic natur soil salinity kords to land depradation which if prolonged can become desertified. of you should have mentioned some points like Ingress of saline water in couldn't wations as cause of salinity, you have Written more 35 nterms of alkalinity.

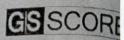


5. (e) "Topographical factors plays an important role in determining spatial and temporal variation of monsoon rainfall". Comment. Iofognaphical factor act as barrier to be moisture laden monsoon winds. They thus help in spatial and knyperal variation. Topographical feature and - thing of moist air on 1 Moundain barriers wirdward side = instally in almosphere (9) Lempral variation I donut with intense due to land use Convection Ren Remarks

GS SCORE Distance from borren - continentality affects amond of rainfall orienlator pravalis = Point = = - cut aeron sum thus todographical foctor also play a role den variation of rainfall. orientation (either East west) or North-South) also determines pripitation. * you have mentioned spatial alpert of onliver, montion temporal alpert & depict now Increasing lea Aurfore temperature has surregaled unseasonal rainfall intue form of cyclones in coultal regions at well. Remarks

(a) Explain the concept of gene pool. Also describe the Vavilov's concept of gene pool (250 Words) (20) Remai Remarks





6. (c) Do you agree that to fight climate change in 21st century Sustainable changes in life (200 Words) (15) style is necessary. Justify your answer with suitable examples. Remarks

(a) Discuss the concept of Airmass and also elaborate its role in macroclimatic changes. GSSCORE the correcpt of Airman was given by B. Jerkens (250 Words) (20) and J. Jerkens Airmass refers to a vast body of air with a weak horizontal gradient of temperature and pressure. They cover large areas of around loop kmt. Constitions for alirmass foundation 1 Vast planar surface with unform surface (2) Minimum wind shearing (3) strong anticyloric conditions - sinking of air. thus according to the above criteria following type of our masses can be found CP | Polar continental | - keyond 65 1/2° Nand 5 = 3g. representation CA - Arctic continental & queuland and Arctic with there ml - Martine polar - cader seas - Norwegian. Maliona MT > marine tradical / Seturen 231/2N-4
Ed: Gulf of menico, Caribbean) entent CT & Confinental tropical La cooler season in Pitet etc. emarks

Charles Carrier

Airmasses affect the macro dimatic changes heat distribution, rainfall (as they help in tog and vostes formation. These have been discussed here. Coolerair balance

1: At mass role in global heat - transfer of heat from subplies warmer tropics to head direct polar areas by planetary wind formation

subola low sold repical high Enopsial low Warna Wrnan

1 Armas and raisfall patterns - wasm air masses mone over oceans and pede up moisher leading to rangell and monorons Potterns of regions, Indian subcontinent temperated 3 Air man Ef. South West hoursoon ones

South West Monson works along Trade wints mairman (Mas carene High)

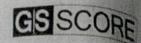
Trus ore Pattams of have whead 3 hir mass effectivy fronte formations in nord latitude gainfall in 1 In the midlatitudes , formation of prosts du tempt rate to contracting air masses leads to frontal regions of us A casan enample. rainfall and lemberate yelones

- these are often of trampted ? GS SCORE to the lower latitudes via it streams. Cwarm I Air mass and Wortex formation the cold artic airmass CA forms cyclonic vortex due to aloft in presense Wealing of air mass due to Vorter and sprice warning of arctic and oceans ledds to spread of casel landola cold waves temperate as low as -35°C in 2019 Dir nasses also help in fog formation especially over seeans the Nustamblane fog at the grand Bould , these create fieling some also horner recent modifications to air masses has led to servere climatic changes like size in and manes, ayelones etc. * Svote maniples of these firmand tupacting Remarks N. American climate, like snowtoke effect

Lovegoy in Amison Studies

threat **GS** SCORE 2) Affecting the succession putterns of species leading to deflected climas con muntion Es: Amazon langurent fins -2020 loss of 12-50/6 of tamorest species - orather this try to connect Deutroduction of invasive species by climatic with climate cuange Endu counts such as trapsical cylines etc to the ced-penns thing frost malking a good enamples habitats of native opening. bading to Introduction 3) Guerlase in maidens et Of unknown menend h fist attack Invarive El: lourst attach of 2010 catheding ~60% of Klarif species ie loust microbes into tomation due to molet +warm eath. crops in quant & clinate denne positive effects on abouter D'Euereau in gold Cor levels can Encreax to con fertilization and onlane photosynthesis I enample 1) this can lead to growth of algae in the oceans Auso add climate lead a now melting might emarks & Turreal or create habitulate region for home speciel.

。由作学师



Housever, the positive effect is only transitionary and should lined.

Enfunded climate charge can impact the breen human-arrival enteractions which has been recently seen in six of pandences like recently seen in six of pandences like to you have given multiple good mamples in this answer Keep it up.

GS SCORE

7. (c) Histosols play a critical role in regulating global nutrient cycle. How has anthropogenic activities disrupted this in regulating global nutrient cycle. How has anthropogenic (200 Words) (15) activities disrupted this balance? Elaborate. (200 Words) (15) listered refere to the soils found in platy areas and manyrone regions. these soils are crucial in regulating global mutrient andi-Lefter, deadronois Deadmatter decoupor

wither, deadronois Deadmatter decoupor

wineralized

with such Jeasth worm

Paraniks

Paraniks

Formation

Formati Detc.

Distords refulate the motivate cycle by the

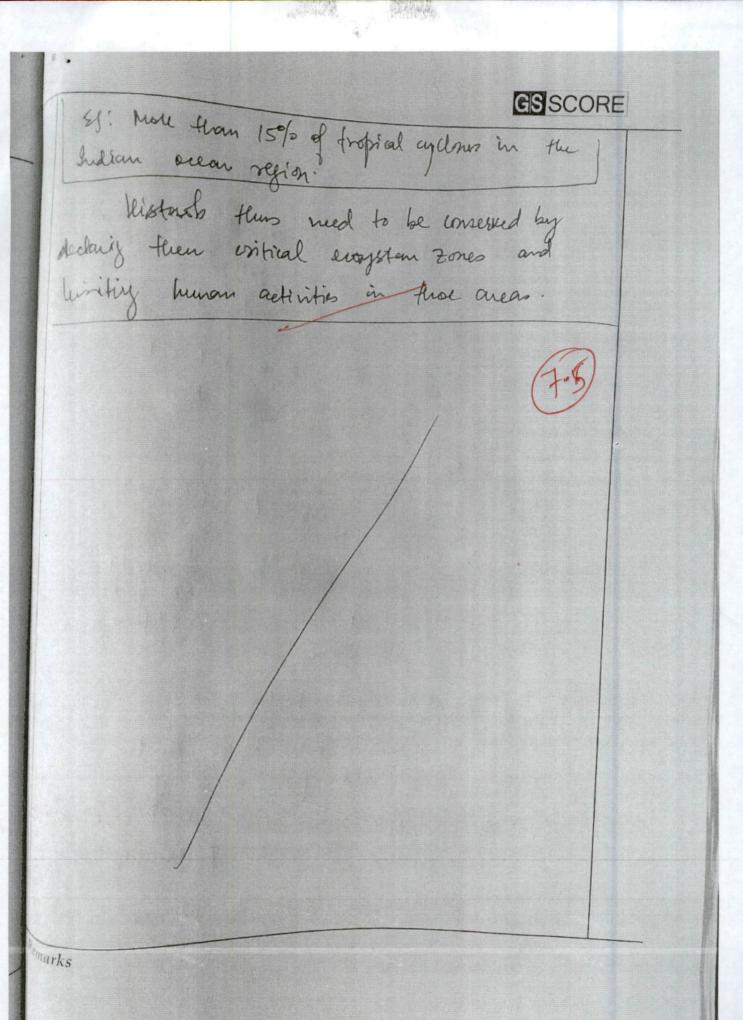
procest of glegification and numeralisation. I they add to the soil organic carbon stock which is the largest con winh on terrestrial Distorole contain organism tile earthworm, backeria - Nitrosomonar, vitrobacter are fugi backeria - Nitrosomonar, recycling thick help in mitrient recycling

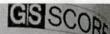
。如何的技术

一进军时发

however, the authropogenic activities has discussed the homeostatis of historols in following ways-Ways-Oupart on balance O hapid when estusion in the wetland and Reaty oness leading to loss of soit. Es: Sunderban dutta-heing reclaimed as extension of 24 North Payans of Bugat Discharge of effluits and landfill waste onto the historio affects the septroph saprotrophs and metrient recycling. De Kuman acteristies leading to photoal temperature clarges (as per 18ce Report) of around 2°c has led to dealine in productivity of historials (i) Encrease in anthropogenic clinatic disasters affects the historial bearding to large scale evasion of these soit

* mention soil at carbon seavetter, and here any disription to us will Empart grobal Carbon cycle & have funcials in Epobal Climate temperatures.





8. (a) What is Polar Vortex? How far climate change is responsible for erratic behavior (250 Words) 0 Polar Vortes refers to the spiralling monement of the polar vortex? of cold air abone tue poles formed du to lors pressure conditions in the upper troposphere. formation of polar vortex is a natural phenomenon due to air mans formation. tornation of vortex Slorof Afof Book high Pressure Polas night fig: formation of vortex. Conditions for formation of polar vortex. OAccording to Jerlens, polar vorters can be formed in latreme cold polar areas of Arctic and Antarctic Arctic nights ortende @ Aloft loso pressure to create spiral movement (3) Minimum Wind shearing leading to stronger Vertex.

GS SCORE Erratic belanious of Vosters due to Whate change. 1 Naturally, plan vortex is contained within ik limits ky the encirching polar night jet streams D however, climate change has ledd to the barring of pole (ones continent and also enample Data | Arctic amplification > Was ming of Arctic at a higher rate which is further increased due to exposure of land (3) this warning affect the temperature contrast in the higher latitude and led to the Warning at Wealaning of vortex Azure: Wealieris Warmer oceans spread of cold voites towards Jemberoture lower latitudes Contrast Impact of this erratic behaviour of vorses. Remarks 4 you have enplained ful formation of polar vortanzis medianium in a fair manner keepit up.

1) the hickorie of extreme cold waves not in higher betitudes kuit also upto mid latitudes. El: Cold waves extension till West Asia in 2020 Dec - lemperature docking to 2-3°C 1 Interesty and Juguerry of temperate ujebres increases Es: In January 2022 - Impact on the mediterranean routall in India - extreme cold temperatures (as low as 25-50) - raiselt over hujals, Western UP - due to 3) Also affect marine environment and ocean thermal balance Es: Warning of Norwegian Sea and interaction with add voises leading to dense forgs Clarge in folar vortex has to be monitored. Ardia's humerd's station at Arctic and Maitn'-Storate of Antarchic can help in mapping clayer. + your onliner is good & you have Remarks Unitered it very good manned given fair enaugnes to prove your argument peoply,

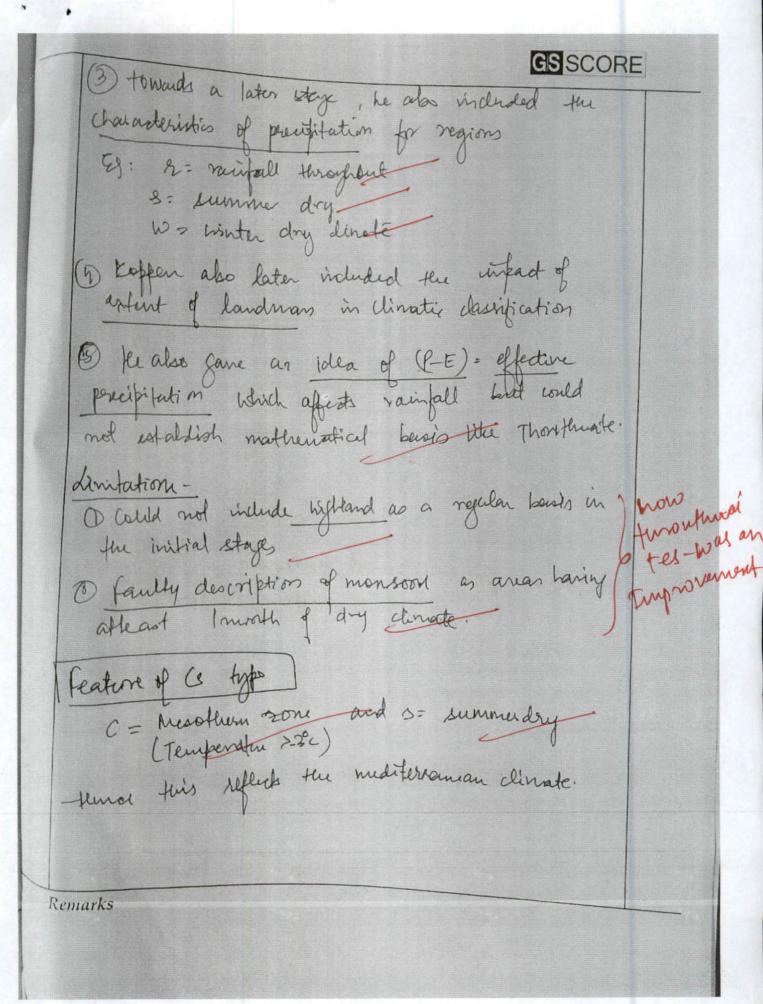
8. (b) Analyse the impact of deforestation on climate change. Also discuss its effects on humans and animals (200 Words) (15) Ascarding to IPCC 6th AR, rapid deforestations has been one of the courses of temperature increase upto 2°C. This intern has impact on human and animals survival. Affed of deforestation on climate charge 1) Affecting the hydrological upde acrosstere world leading to extreme ments the droubts and floods due to chayes in potential erapa transpiration D'helease of co2 into the atmosphere us forests hold around 70-80% of Jobal co, sink thus strugthening the greenhouse effect B) Increase of land degradation and descriptication leading to drought become of increase in Eg: Marathwada pandation due to engarcana again. Bower's ratio Remarks

W Affect the global heat budget by disrupting heat transfer from surplus equational areas to fools polar areas Es: Warner tropical waters -> leading to increase in traffical cyclones (35% in traffical seas) Infind of deforestation and thus dinate charge on 60 survival issue du to extreme climatic events the urban floods Caxi: huntain flood, Recent floods in Germany (2) spread of rosuoties du to loss of habitut E1: Coronanionio, Nijean tirus + Tita 1 Affects their seological niche and thus rapid increase in extinction of spreaks angle Ess Bramble Melony of Australia estant due to Remarks + mention on Impact of migration patt of Animalls.

The secondary succession of spectro leading to secondary succession and playsochman GSSCORE Es ferret fires in Amazon nainferest loss of 18% of forest apecter: thus deforestation has profound infact on the ecological homeostatis and human and animal health. * Also mention cates of Increased Animal-human conflict. Als and, Karnetaka - Elephant crop destruction by Nilgai, door-in MPete * Also mention Islandization, effect Increased due to dethnuction of forest & home fear of loss of genetic divertity in Animals & entimetion Remarks



8. (c) Discuss the basis of Koppen's climatic classification. Bring out the salient characteristic of 'Cs' type of climate. (200 Words) (15) Koppen's dinatic dassification was given in 1900's based on the regretation - as the best of seflection of climate'. He was inspired from de Condole's schune of climatic classification Basin of hoppen 1 the primary back of classification of climate Was regetation patterns @ The regulation fatherns were explained interme of temperature & precipitation. this this scheme was emperical nature. rupalor Kelisotherms = Tundra, ferms etc E in human D Tunt >100 Microthern = Taya bell Winter: T> -3if, mesotherm => Temperate Feridions 1 Temp> 18°C - Megathernes = Tropical vaintsvest fg: telation between vegetation and temperature Remarks



GS SCORE

5 Multornla feature = off store trade winds in summer 2 on show westerdes in writer

Vegetation = sclerofty/1 no, afros fruits and

viticultur-(s type of dimate thus explains speed of wift of winds on Christe and Vegetation * mention Agricultural pattern in brief like growing atms fruits, vineyard of world.

Remarks

(135)