



Biology Handwritten Notes



Biodiversity and Conservation



classmate Page_ Bidducisety and Consocuation Ants > 20,000 Archide 20,000 9 Beetles 3 lacs -Fishes 28,006 Edward Ullson popularised the Ivon 3 Geodiursetty Cremetic diversity Mariety of genetic information within a specieso may be wont -? Alleler - Entire gene ' - Chromosomal structure Benefi Ability to adapt to adapt to changed environment conditions : Better * Basis of speciation. Uiruses 10-150 granne In India Mysflasma 450-700 gen Mango - 50,000- 1000 Rice - 50,000 Oryza 32000-50,000 For More PDFs Visit: LearningMantras.com

higher the euness greater the species diwrsity assmate Species diversity Relative abundance Mariety of species Species richness Proportion of different species in an area Species eveness Jequitability. Burne Birch genator 4 = 2Specces diwrely Uneveress. ellenness Ecological duersity It is at the luce of comminity and ecosystem diversity - & duiersity : duersity af organisms within & diversity: Rate of replacement of species along a gradient of hobitat or i.e. Quiersity between the community between the i.e. different type of specier bliv two comminity.

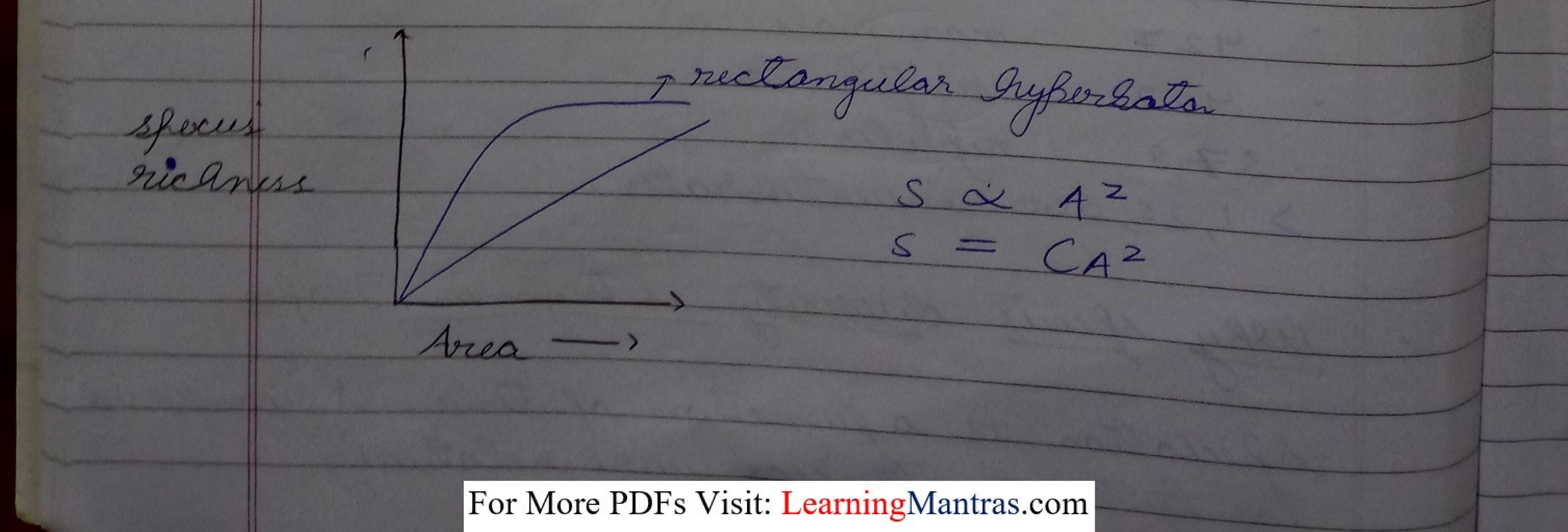
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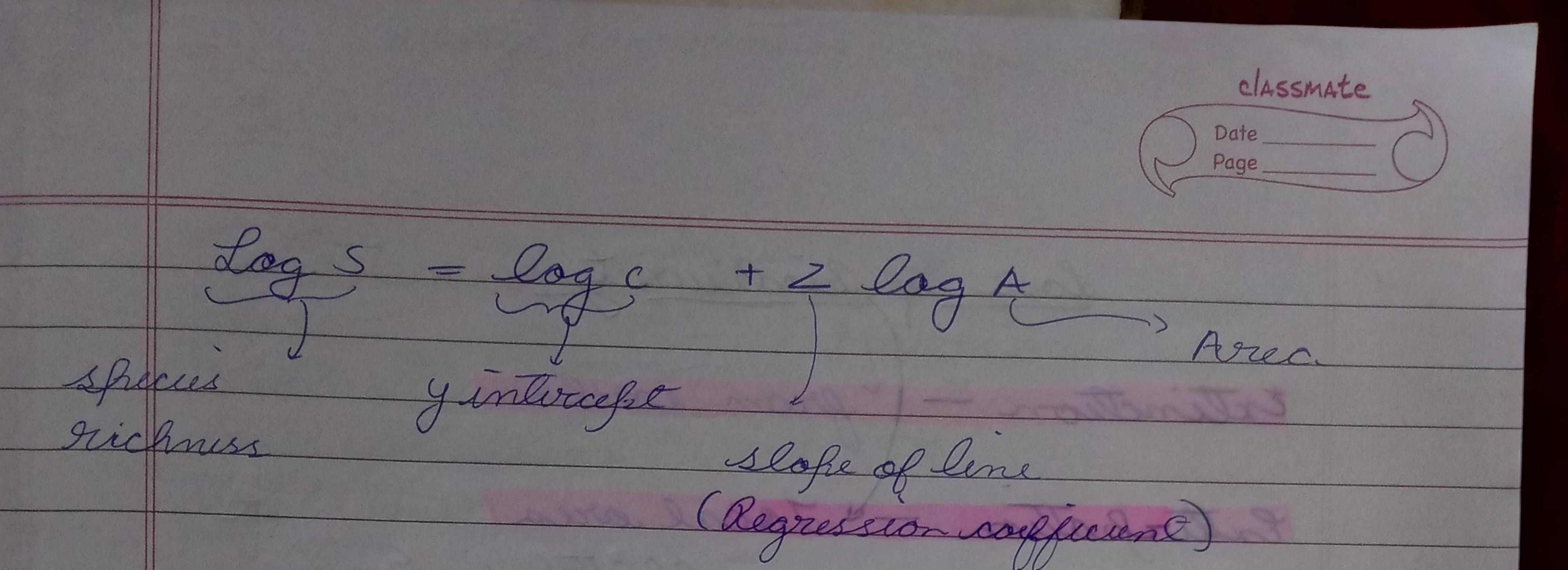
classmate - T duiersity: Dotal species richness of all the habitat in a larger geographical arealth? = ax x B India has a greater ecosystem dueinsity . Than scandauan country like norway. Have many species are there on earth TUCN (2004) So for - discoured, described > 1.5 million Total - 40 to 50 million Robert May - Imillion >70 ·1. are animals 22-1. Plants. Insects -> 70 1. among allanimal species lis Querty in India 2.4.1. af Area 8.1.1. of glabal diwisity. among the 12 mega diversity For More PDFs Visit: LearningMantras.com

Andemism is higher in western ghatte w.r. t amphibians Let to be Discourred. 22.1. Slunc Plants - 45000 > 3 lac. Animals - Auece India - 10 Geografaecal region × Himalayas & Decoan Plainsula 2 Trans Himalayas 7 Grangelic plaine 3 Deserts & North east 4 Seme - Arid & Coasts 15 Uleston-Ghats of Islands. · Endefinic Species Amphilians 6001. - 53.1 Fishes Reptiles 36 % Angiosperms Mammals 331-10-1. Paterns of Biodiwisely · Master gradiente Altetuional For More PDFs Visit: LearningMantras.com

classmate Date Page. Latitudnaligradient Bird species Greenland - Arcles (71°N) - 56. -> New york - Temperate (41°N) - 105 Columbia - Equator - 1400 India - mostly tropic - 1200 species Mascular Plants Equador) Mid-mest USA (Iropic) 10 times (Timberate) Tropical trainforest Amazon has quatest Biodimensity. Lungs of planet = 201. of total atmasperie 2 · 40,000 - plants 3,000 - fushes 13 000 - Burds 427 - manmals 427 - amphibians · 37-8 - rubtilis. > 1,25,000 inwithates! Ully specie diversely is high in Tropic is Speciation is a function of time. As compared to temprate, tropics were relatively For More PDFs Visit: LearningMantras.com

classmate undisturbed. Leading to longer. euclitionary time gieriod which resulted in deversification of species 2 Climatic condition : constant i e less seasonal. Local species tend to Surune 3 Marm Demperature, herned enwon-ment fauourable for serviceal of species " Higher solar radiation, greatier productivity leading to higher species diversity. Greater insect species which help to pollinate leading to more outcrossing in plants leading to greater genitic uariability which leads to speciation. Species - Area - relationship Alexander um Humboldt



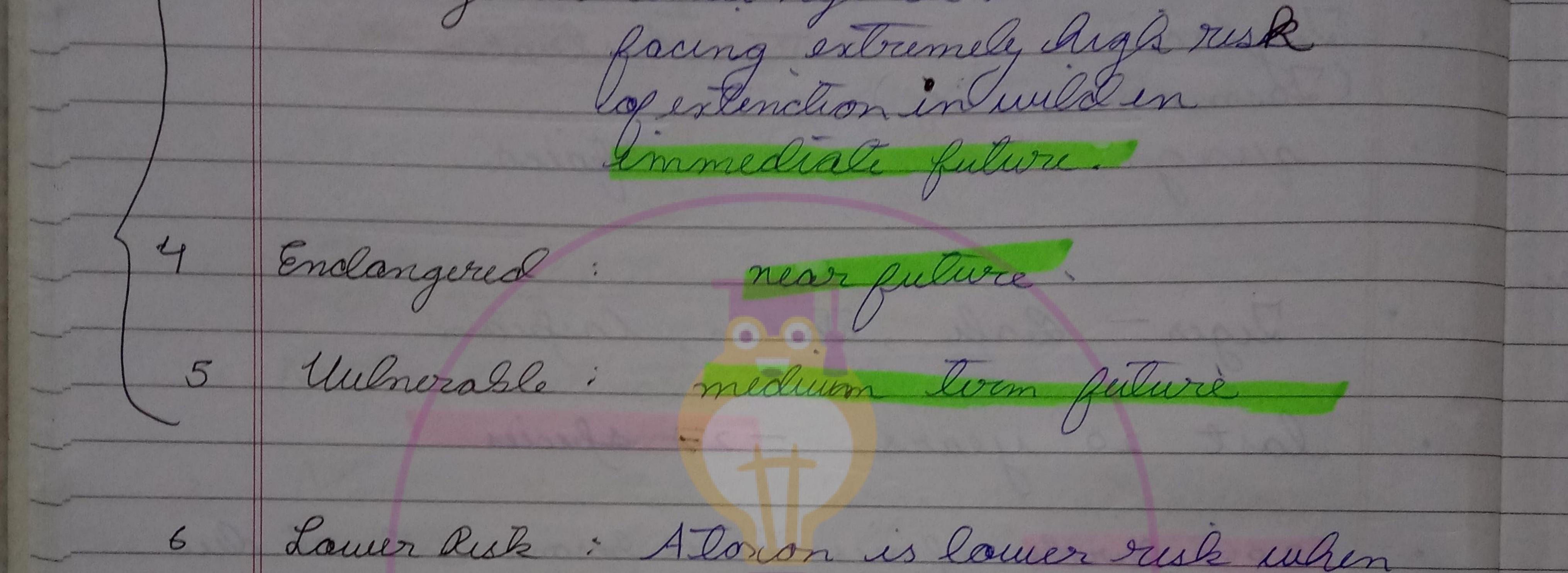


Z= 0,1 to 6.2 continent : slope op is steepest. Z = 0.6 - 1.2 for frugellorus Birds 2 = 1.15 Infortance of species duarsety to the ecosystem 0 Species dueraly increases Stability increases Oroductetily Increases year to year Resistant unreation in Resilient froductivity Ro Paul Ehrlich Alcoreasis Daud Lelmon Ecosystem - Aeroplane Long Tom experiment Ruelt Species Key species -- Wings For More PDFs Visit: LearningMantras.com

CLASSMALE Loss of biodiwrity_ Extinction -"from early Exterpation - Local area 1. g Cheetah in India · Lyfers of extinction 1 Natural Extinction: slaw rate. 2 Mars extinction: Large no of species are eliminated due to colastrophic euntz. · Fue mass extinctions have occurred 3 Anthropogenic: 100 to 1000 times more than the natural extenction. also called sixth mass extinction. IUCN: Red list 6004 734 species become extinct in last 5001722 Mertebralis - 338 inwellerates - 359 (highest) flants - 87 F5Dog the above extinctions were due to For More PDFs Visit: LearningMantras.com

web -> world conservation union classmate Date____ Page Extinction Dodo Mawrallis Stellar sea cour Russia Passinger Bird America Thylacine (Dasmanian wall) Australia quacy Africa Ziger - Bali, Jauan, Caspian last 20 years -27 species 2000 perds species habe become extinct due to colonisation of Tropical grain porest. IUCN/WCU Red fist Red clata book -Species, subspecies facing narious alegrees of & Categories extinction Estinct: Altaron is extinct when there is no reasonable doubt the last individual has died. Extenden: Atoxon is extenden weld rechen after exhausture swarey in known and or expected hasital - aque failed wild For More PDFs Visit: LearningMantras.com

classmate. Marcalened execus to record an indudud britically : A toxon is critically endangered endangered when it is 3



6 Lower Rick : Aloron is lower rick when it does not satisfy the criteria of CE, E, V + Data Deficient: Not enaluated: Plants C.E Amemals Berberis nilghiriensis Regny Mag Benlickia Red Cand nicobariana Ailwans augresus cashmeriana Black Buck (Antelage) For More PDFs Visit: LearningMantras.com

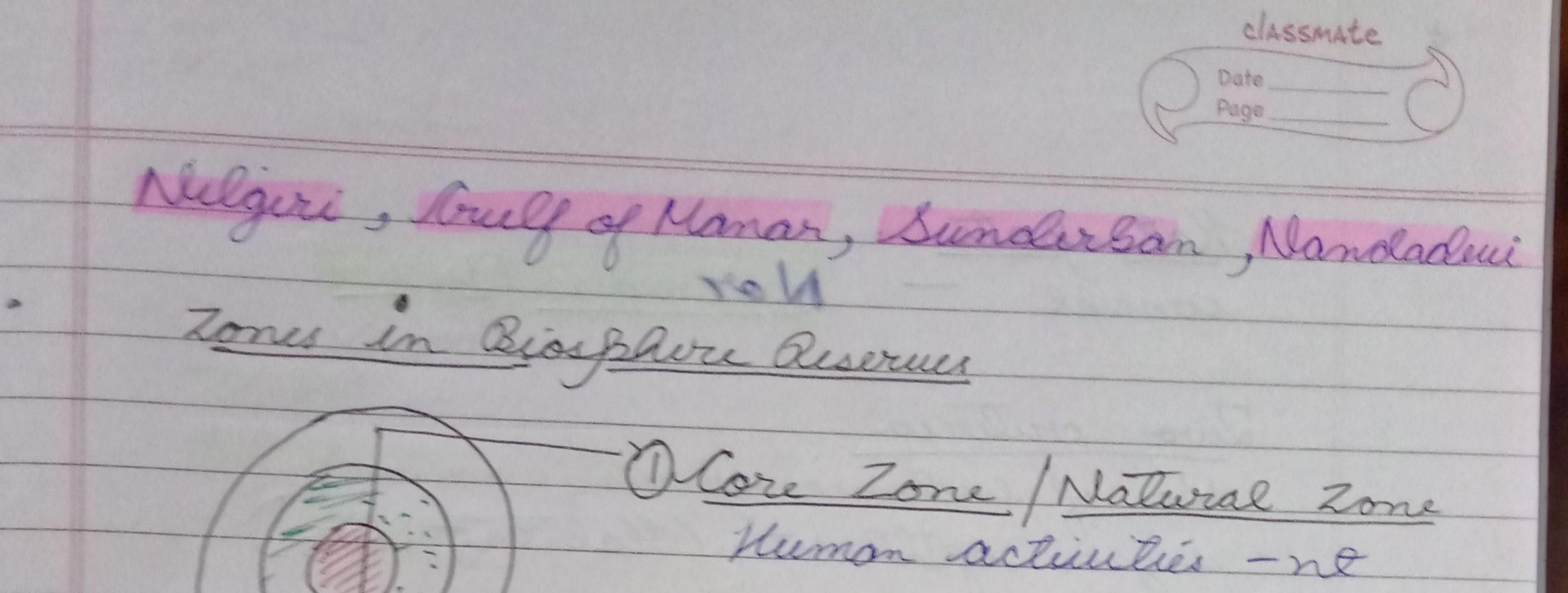
classmate Lass of Biodiwsely D 4 Reasons => Euil quartet abitat loss and Fragmentation (Mayor reason Earlier 2140/0 - Tropical Rain forest Brusent 6-1-TARF - auchest " Soyabean cultivation " Corrassland for beef callle. · Core area dicreases and edge areasnereases Manmals and Birds occupying large territory Accrease affected. · Migratory Berds affected. 2 Ouvrpopulation inplation • Need turns to greed e.g. stellar sea cow, passinger figeon · Marini fish - over harwisted - grosing threat to their swallal. 3 Alien species / Enotic species Biologecal control mainlaine - In natural habitat biologec population size of spectes.

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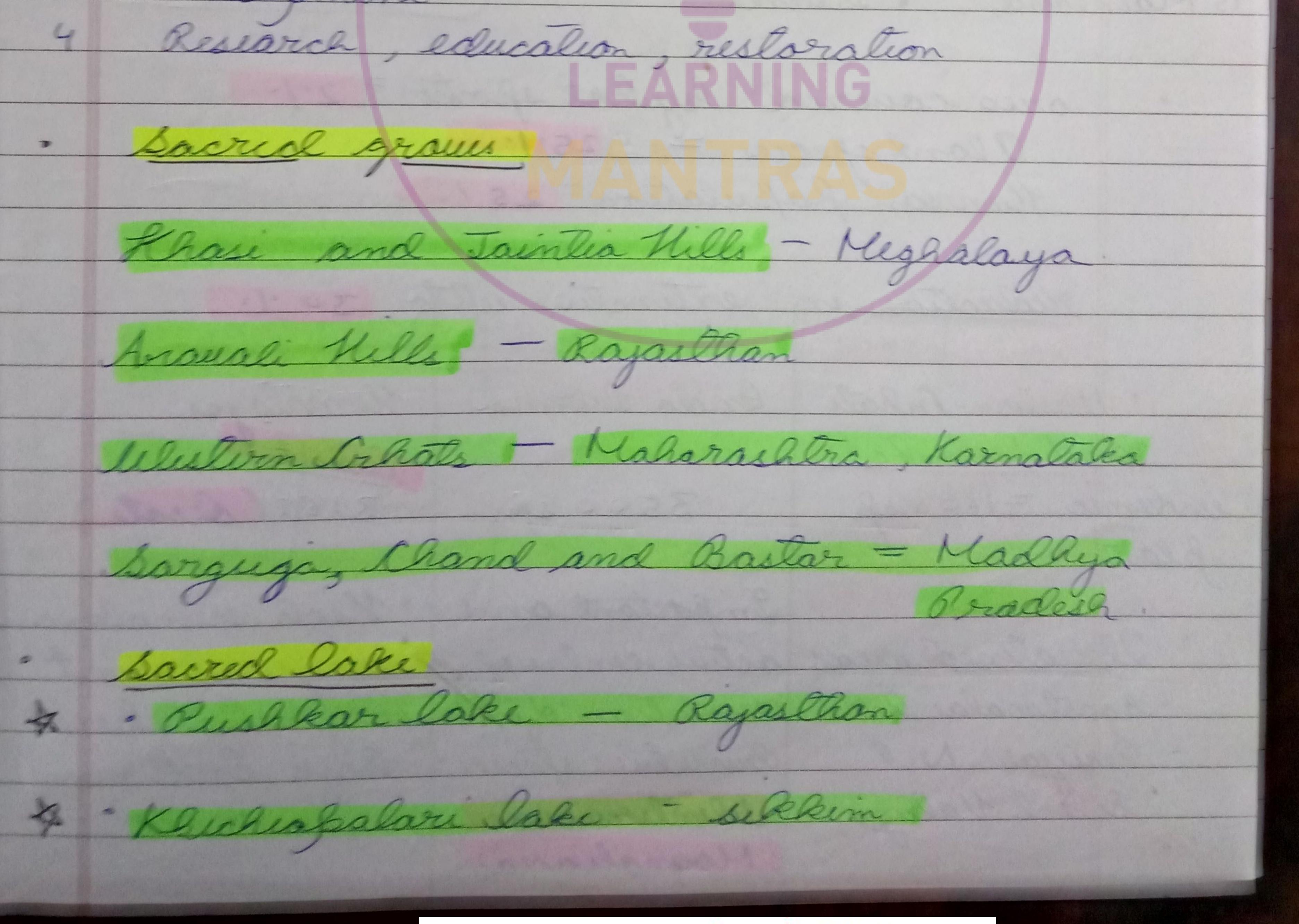
Elle the bit in neu Introduced and - Beological control - no Ropulation size increases nature spices eliminated. Enotic species Echomea crassifies " clogged the lake. - Death of aquatic species. Eurofee. Lanlance comara-Jorent America Parthenein hysteraphonis : herbs should America Expalorin oderalum XP 4 Jonb Alle Perch Lake uictoria > 200 challed fish African calfish claricas Indegenous cat fish Coertenction Marine Rish (Ext) - Parasile (Ext) Plant Rollination For More PDFs Visit: LearningMantras.com

CLASSMATE Date Page Reason fair conservation Narrow utilitarion Economic use Bioprospecting 3 th - 3 Main crops " Rice, wheat, maize Food . Midicines -25.1. Af plant based 25,000 traditional medicine 1. Broadly utilitarion Ecosystem services Amazon - 2011 of almospheric Or Collination : if done by humans cost will be. 117 Delland collars Ethical argument Eury species has Intrensec Malue. ih Moral duty to care for their well being. Consultion Stratigies ex-silu conservation. In sele construction Inlatural habilal · Outside national habilat · Nome garden · Bottanical garden - Natural Park - sanctuaries For More PDFs Visit: LearningMantras.com

classmate Page Biosphure nesermes Sacred graves Molspols Loos Grene banks Mational Parks Sanctuaries Both flora and fauna Only fauna Culturation, Gorazing Harmisting of flower product -ne (X) Hunting - nt (X) Ka Boundaries are unle Defined Not well defined Ormale ounorship(x) Biosphere Reserves Started by UNESCO in (1975) under programme MAB: Man and Biosphere reserve Ist Biosphere reserve = Milgeri B. R. 4 are connected at the international law For More PDFs Visit: LearningMantras.com



2) Buffer Zone M.A Research and Education Transilion Zone/Restaration 3) MOACT Zone Uses of Blosphire Reserve Biodiursily construction Traditional resource une Sullabrient



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CLASSMATE Date Hat spats concipt Norman Myer Luo coutinia - No of endemic species - Degree of threat (Mabilat loss) 25 (earlier) 16 Bropics Findia. 15 Mainland 1 gsland area courred by hat sports = 2-1-Oland species = 25-1-Hunron Robulation = 25'1. reduction in extenction up to 30 % Indo Burna felestern- Galats Umalayas auchest and Sulonka endemic = 1600 sp 3500.8/2 3169 acots plants Important and · Kiga aimalayan Threatened areas active centre of monges fraunt - Agostmalae aelle endution of and nigration chince Primetuce species: Alga Endemism - Periejan N.P . Menteraciae Sylent Walley, For More PDFs Visit: LearningMantras.com

classmate Page Ex - Situ Construction Mome gardens the second and it is a second to be a - Mwonya (Curry liani) In mus. Catanical Granden - Arboreta - Woody plants · >1500 B.G. 4nt 2000 2800 Arene bandes; and the second of the second o - seich , fallens, gameter , frozen germflasn gene libraries. · Cryppreservation = -195°C tissu autore. Ria de Janera 1992 170 Earth Summel (Brazil) countries World summit Johonesburg 2002 190 countries For More PDFs Visit: LearningMantras.com