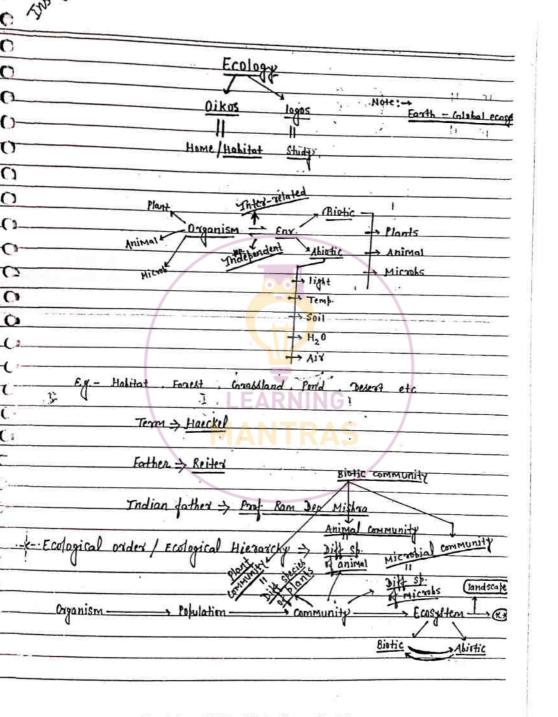




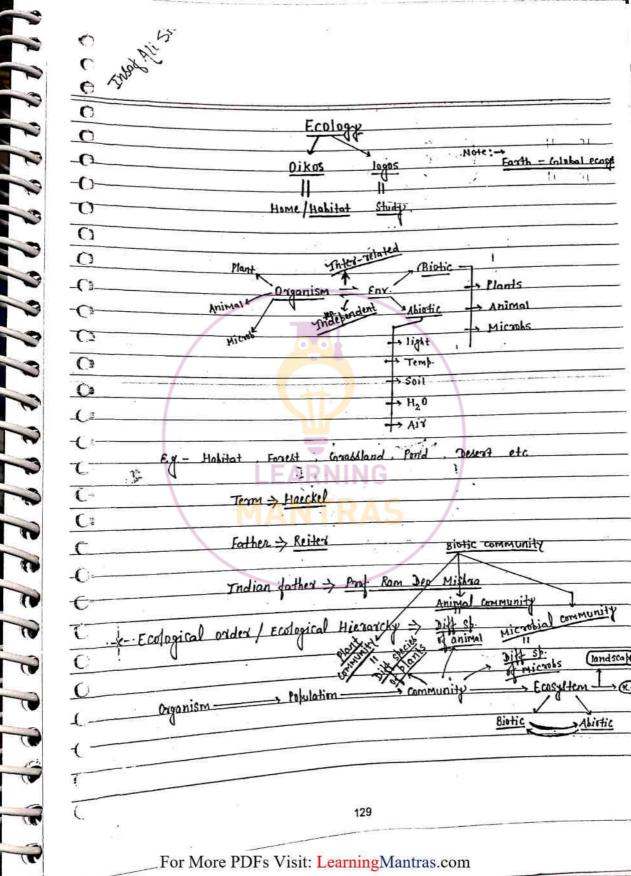
Handwritten Notes On Ecology







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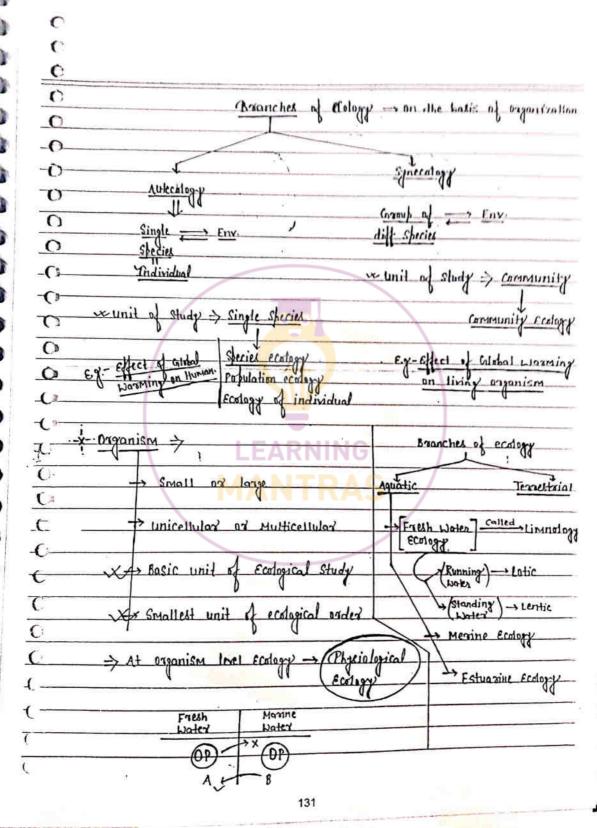


C AMPRILLE Ecology O Note:-Dikos - Inlakal ecose Home / Habitat O Study C0 Plant Richic -(3 Organism Plants Animal Abiotic Hite C light (1 + Temp. O → H₂0 + Air Corabbland Devent Term > Haickel Cı Biotic community k- Ecological order / Ecological + Population Organism. Biotic . Abirtic

O

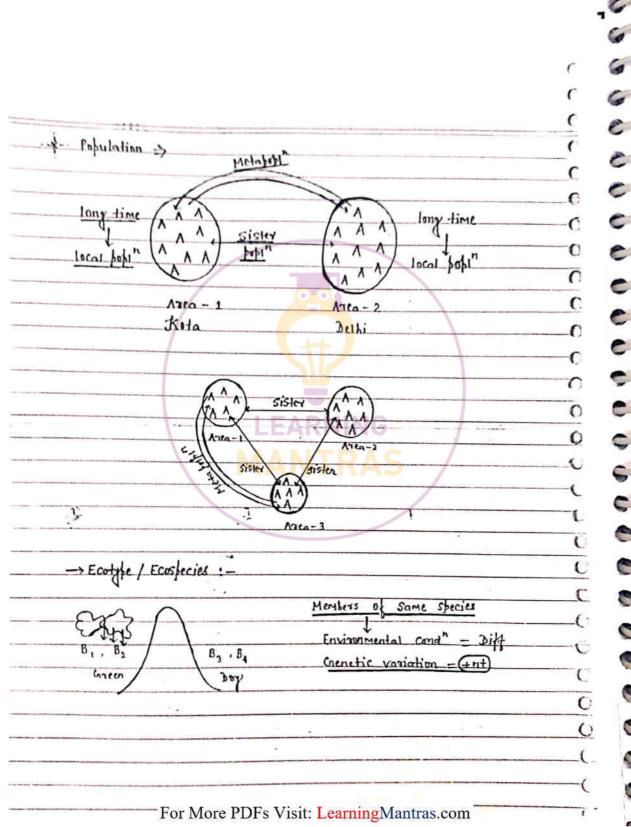
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Forest Form Grass	
53 53 VVVV	
Tranks Treat	
Se Se Microls Har Abiotic	
Air	
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E E Frank	
I Sand I lake V V V V	
All VVV	
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0.1. 0.000 10 11 1	
NHe: - Ecosystem is a unit of landscape.	
landscape Biome	
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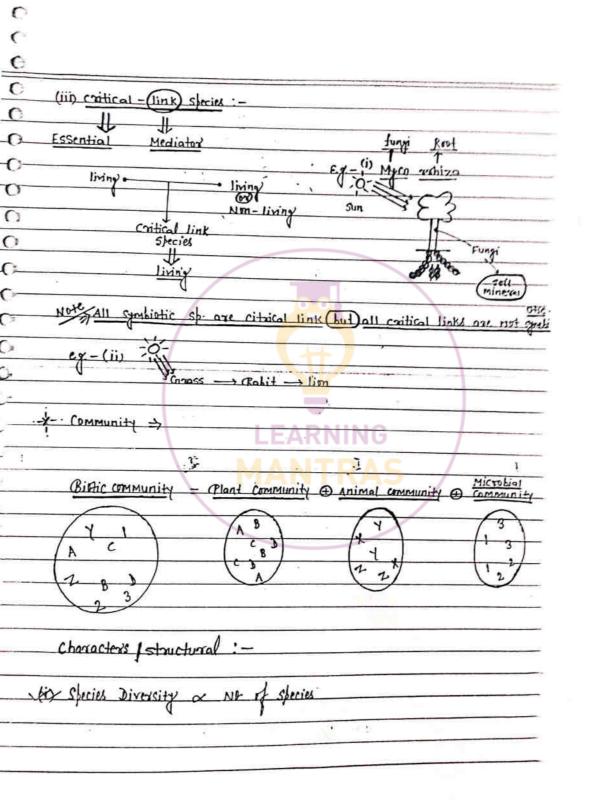


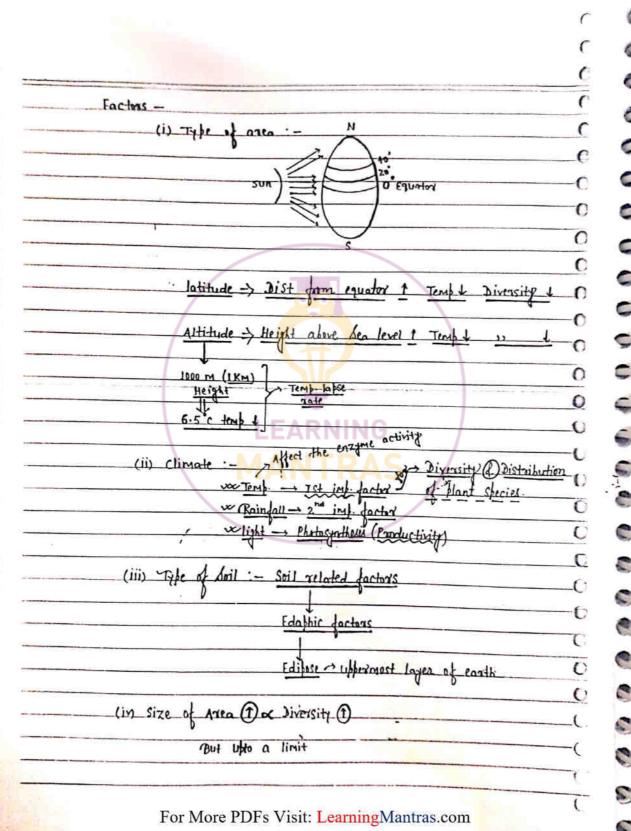
= VECads / ten / heast == Huney floor 0 latten lends () Species sy 19 (i) Indemic species :-- I mind only in a -> Number (1) -> Chance of Cellnessen => loringtion -> investe continuedal afrantien eg .- Kanya'm - hutteolia - Newzaeland Melasequoia -> China valley

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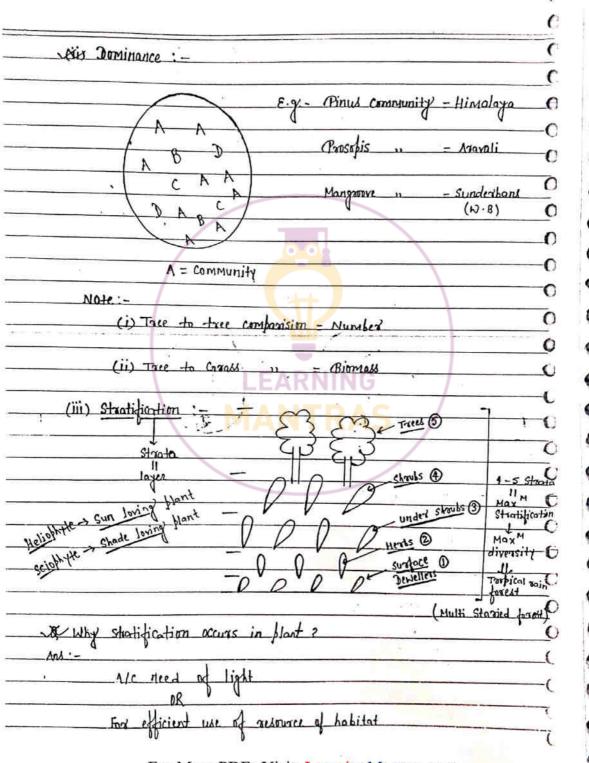
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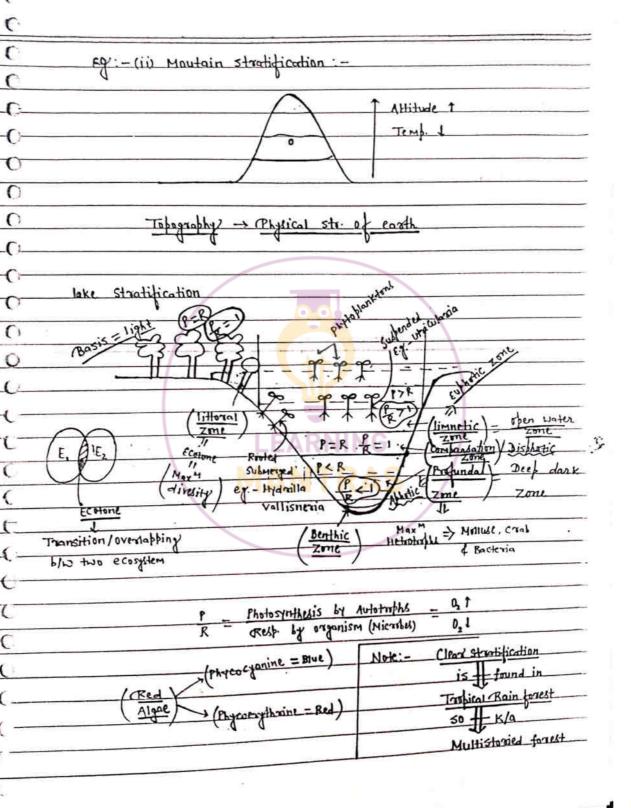




Audrate Method -> Method to measure the diversity. A A B Related Q. A.B. C -> Bird sp. 3 species X -> Mammal Area - 1 1 - Insect Related 3 Species Area - 2 unatlated 3 Species × COW COW. Bird Mammal L Rat Ingect Bird Species Diversity No of species Evenness / Equatibility Taxonomically unrelated



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	The is determined	by dominant plant species
come s comiferent	hape Green forest	Trapical Deciduous
1		
-	The second secon	

lake

(i) lilleral zont.

(ii) limanetic zone

(iii) Profundal zme

Ciry Thysiagnamy .

Ocean

(i) lillmal zme

(i) Pelagic zone

(iii) Alytal zone

(Intertidal zme)

C

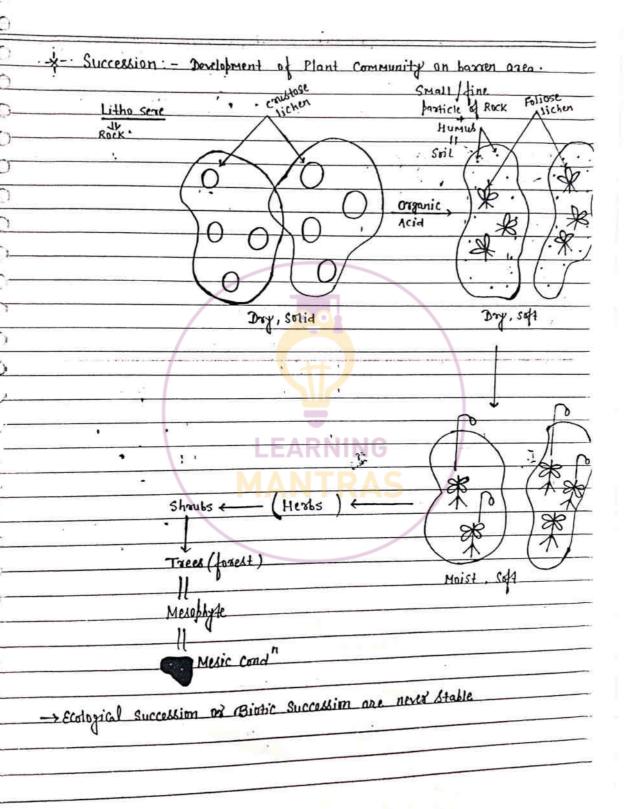
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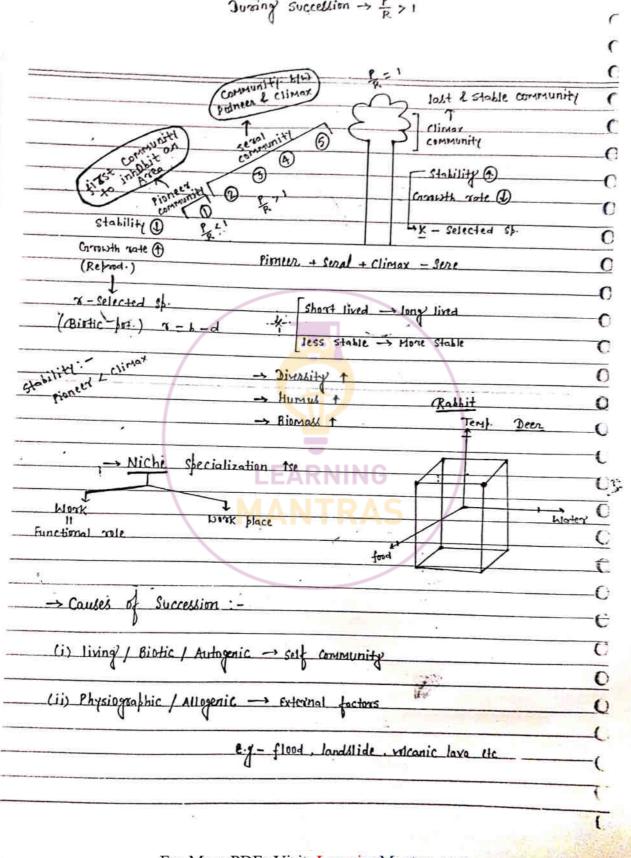
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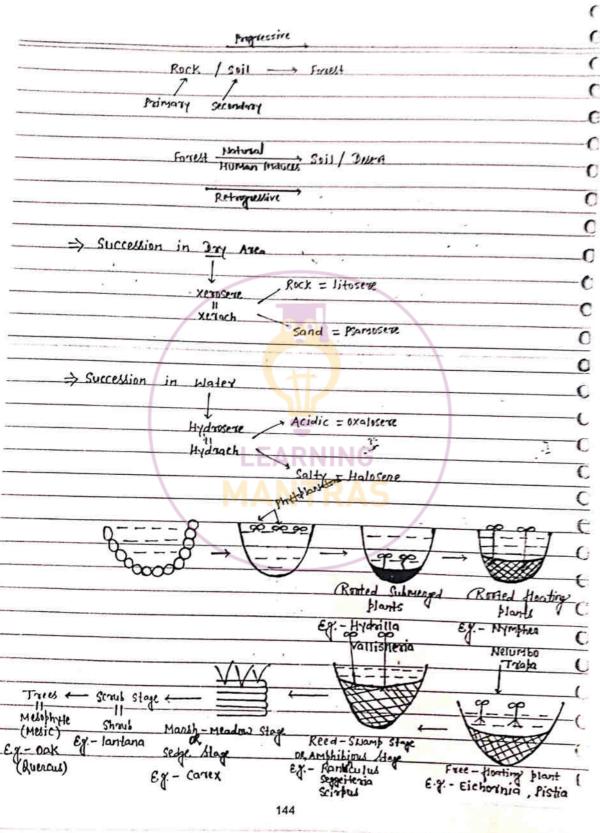
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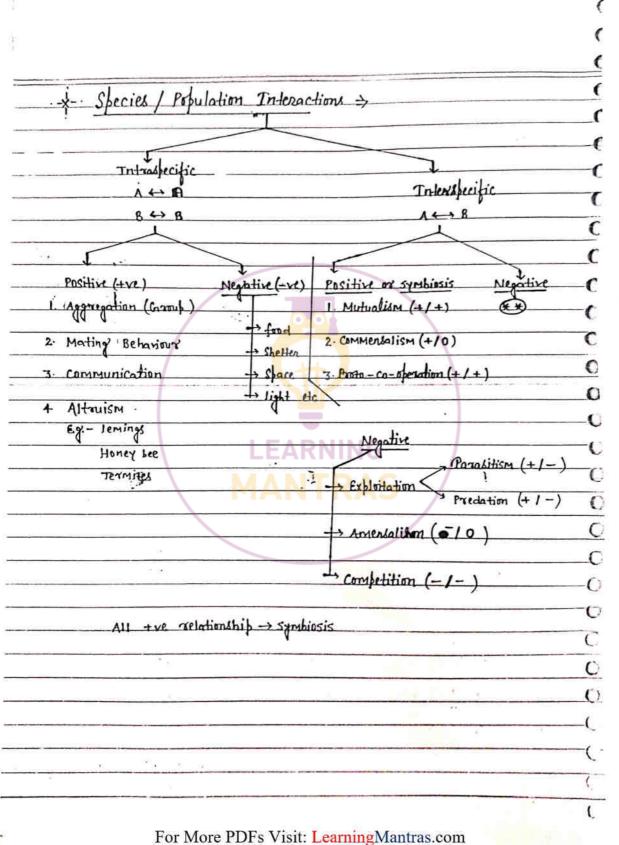


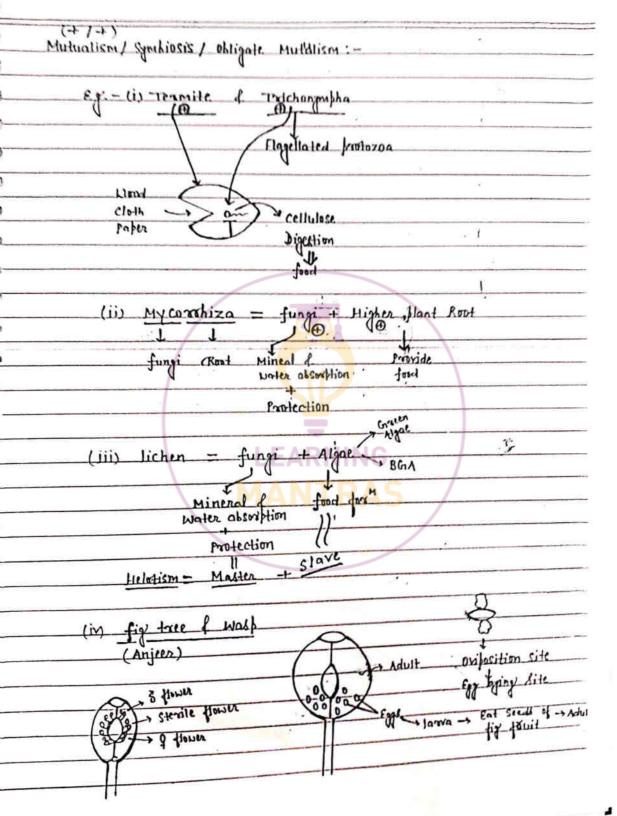
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-> Types of succession => (i) Primary O 0 0 Constoce - Sril formation lichen Micanic Joya Tonemed Rock 0 - Valcanic lava - Newly promed fond Sand Rock (ii) Secondary Succession 100 - 200 A of year Shoubs + Plesidaphyta underground stem - Abandant Form lands 143



6	
(Desnt	Hydmseze
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-C- (i) Figures - Combine licher	(i) Pioneer - Phytoplanktons
(•
(ii) Try - Mesic amd'	(ii) Water -> Medic "cond"
(Xenit tox.)	(Hydric on.)
(iii) conforming slow	(iii) comparative falt
((in mifm	to the to the total the to
(NH:-	Margin to Cor
(i) Plant by	ccession - Autotrophic Succession
c	
(ii) Animal	" - Helmhalic "
1	
(iii) Microbial	· → Serula
<u> </u>	LEARNING /
Characles.	Seral Climax
() () () () () () () () () ()	TANIKAS /
(i) size of individual magazist	Small large
(iii) Ecological Niche	Generalized Specialized
	Simble complex
(iii) Corresponity expenization	Simple Complex
Gy Food Well Chain	Simple Complex
· · · · · · · · · · · · · · · · · · ·	low High
(co cursts me effectived	
(N) Nutrient Conservation	loo high
in living monism	PZR PERPERPERPER
(vii) & ratio	Jois
(viii) 1/8 ratio	High
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a lita illi a di	C
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Mutualism co-existence ->	c
Mut	o
Co - extinction ->	
Exception (N. Dachid & Good Burdledon	0
(n) orchid & Bee / Bumble bee	0
	——о
Ophrys -> Pseudocopulation	—-с
Pollination & Bee Sexual Deceit	0
→ co-evolution	0
	0
Mimic = Petal - Mimicry	
Ophays Model = 9 see . co-existance	—-с
· co-extinction	c
(vi) Yucca blant of Pronumba moth	0
(VI) YULCA PIANT 4 ISUMUMBA MIAN	0
flower Egg laying site.	
ovary dd d	0
Eggs -> larva -> Adult	
uu uu	O
	0
Paonuba	
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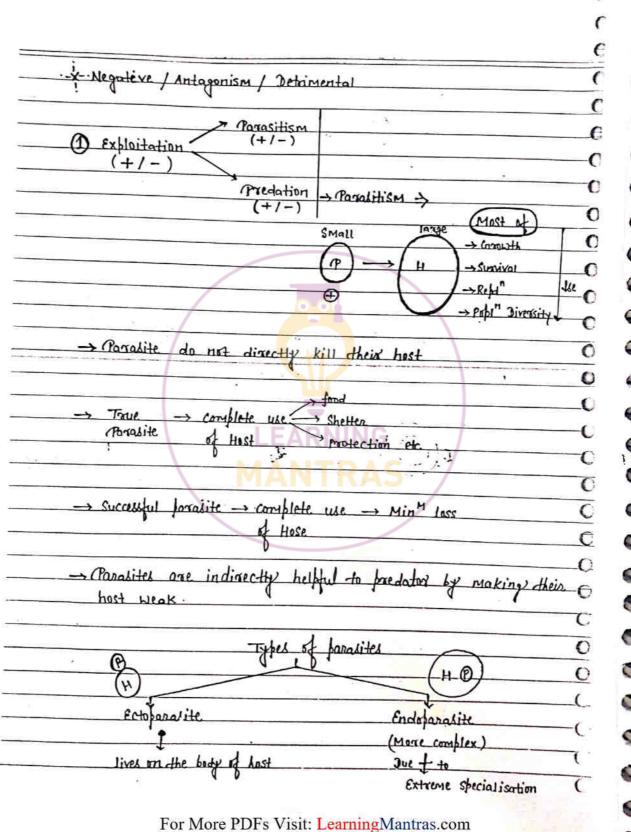
(+/0) Commentalism Ex. - (i) Lianal / Wearly climbers / Wearly vines Torbical Rain eg:- Bauhinia Ross geter photosynthesis Mango light, Maisture - Hanging nort Onchid (Velamen) Capture environmental Myamhiza misture (hi) Elizmes / Eliznic (b) Pilot fish & Shook > Transportation + Protection

Predator > Prog Parasite < Host

1700	DISTRE C HOST	
(c) E. coli of Human intestine	(d) Claunfish of a	© nemone
-> -food -> Shellen	Partection	
Arotection .	No.	
(e) Barnacle & Whole	(f) Cottle egact Bird	(O Cottle
(Constacean) (filter feeder)	+344	e to grazing of
Shelten -> Protection		ect comes outside
New food Site.	TRAS ,	

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0	
<u>e</u>	(+/+)
0	Proto - co - operation / Non - obligatory Mutualism / Facultative Mutualism
- C -	E.y-(i) Rhingcons & Tick Bird
-()-	
O	Release Parasite Ford
0	(ii) concodile & Bird
<u>C</u>	
-C;-	Teeth Cleaning : Food
-C-	Release Parasite
C	(iii) Hermit crab & Sea panemone
O	
0	Proviety of food
<u> </u>	Note: - Comentalism → NEET 2.K13
(-	I LEARNING
7	Is variety of food is not a countable herseft
<u>C</u>	for so anemone i.e why this relationship is
	also k/a Comentalism.
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<u> </u>	
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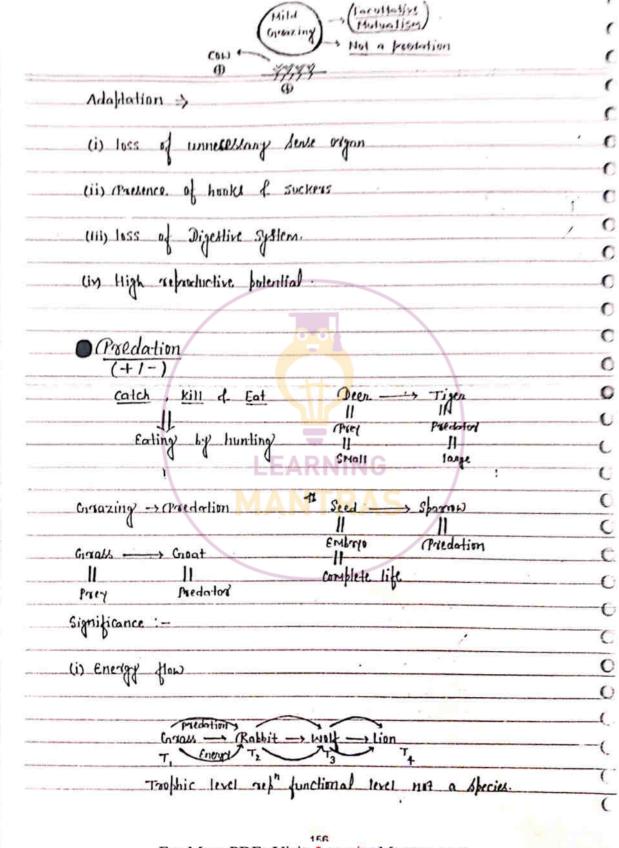


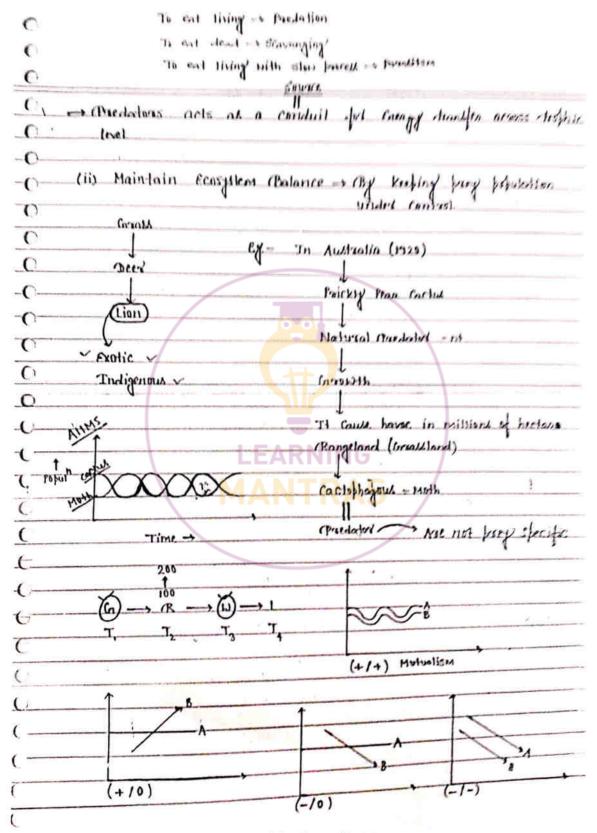
Endoparabite 0 Ascanis 0 Ecto boardite Entamacha Plalmedium etc 0 Flood lice (Abhids) - Hen 0 bull Myoring Red Cotton buy CAMPACTER FOR 0 -> Other type :-Loc inter -0 (i) Hefer forable => The (a) possible living on another paradite ((virus) 0 Backerisphage Parteria - Organism O Paralite Hyperborrasite Moralite which today Tears & chimball Deverante ((a) Total Stem formulite Sucking mot E.Y. - Culcuta Haustonial Root (market) > Mineral Jears & 0 Matta Pra splen Chlorodyl less developed (ane -nt 0 carrion the helps in prilination. (b) Total root porcelite -> 0 Ex- Raffleia - larges flower Mineral + Water Hambfordal of four For More PDFs Visit: LearningMantras.com

Word of business the total specific	(
Chab-Sacculing > Pasasitism	
· · · · · · · · · · · · · · · · · · ·	
Partial (parasite which one	
(iii) Hemiporasite >) partially depend on most) leaved of chlorolyth	
Described	C
(a) Partial Stem paralite (mango) Mulasynthuis	-0
	-c
Paralite Host	0
Haultorial Real	
legarthus Mango Mineral	0
Viscum Dak less developed	_0
Viscum Oak less developed	$-\mathbf{c}$
	0
(b) Partial mot stem	C
	0
E.g Santalum - Santalum	0
(Chandan)	TEXTO:
[Mondo]	_0
S TARNING	-0
	C
	C
	C
Haustorial > Mineral	C
(Root blater	-O
(iv) Brood parasitism	-C
Nest	C
(Egg) -> Indirect parasitism	O
A 2015	0
-> Not a tour parabile	-C.
EX- Cuckoo & COON	-(
-> Also called "Social parasites"	-
	(
a. ₹.	(

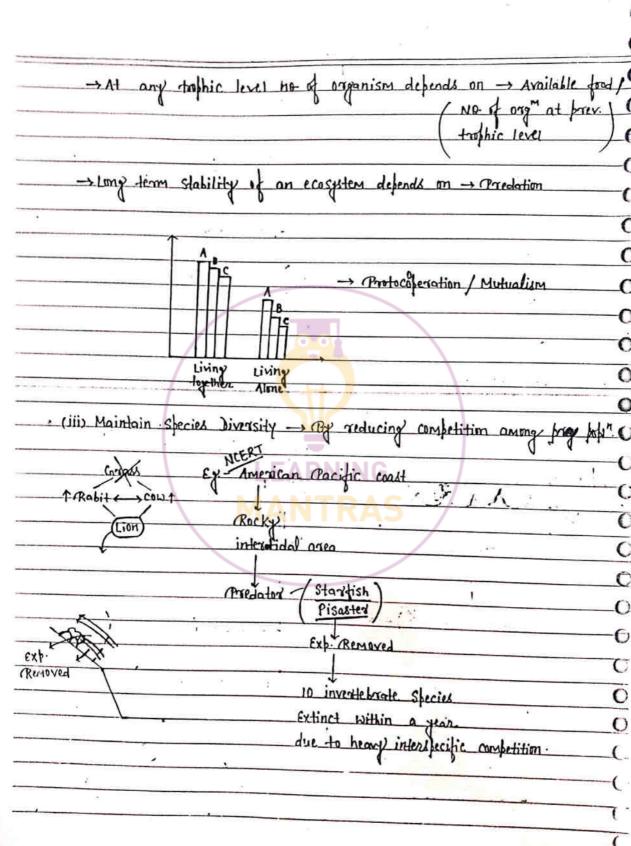
Arcenthobium	. <u>is</u> ,	Smallah Angioshan Janatik

Note: -
(i) => 9 Mesquita
-> Not a true parasite
The day not take any shiften an howar lody
Human blood -> Not actually nutrition by free ress
-> It was blood for body warning & Egg incubation
(ii) > Human fortus -> Commentalism
→ Not- a true faralite
-> It does not take life time Shelter
→ Connexally foralism occur in intelection interactions but this is an intelection
THE Human liver fluke
(Shait) (Human)
Exercia
Snail, fish -> Sec. / Intermediate / rector
(2) Plot modium





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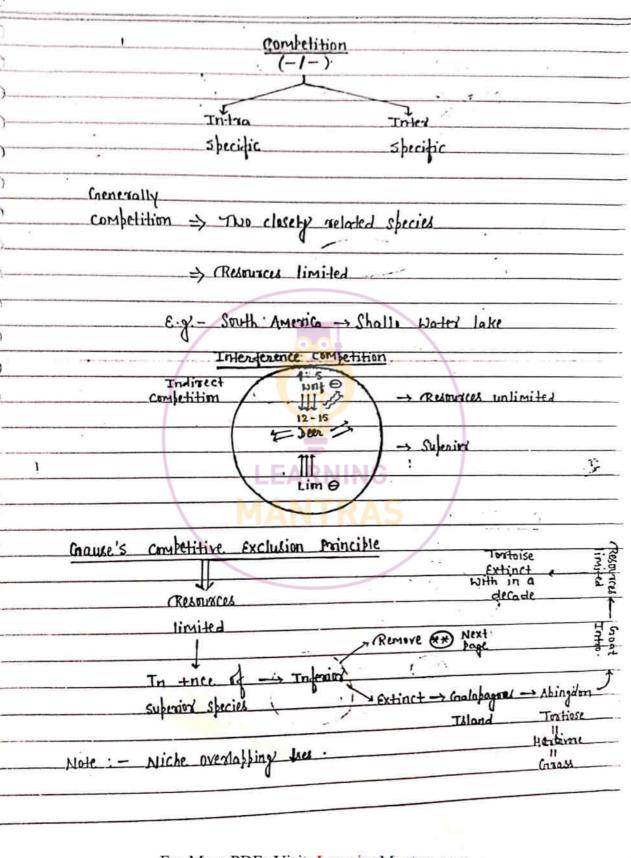


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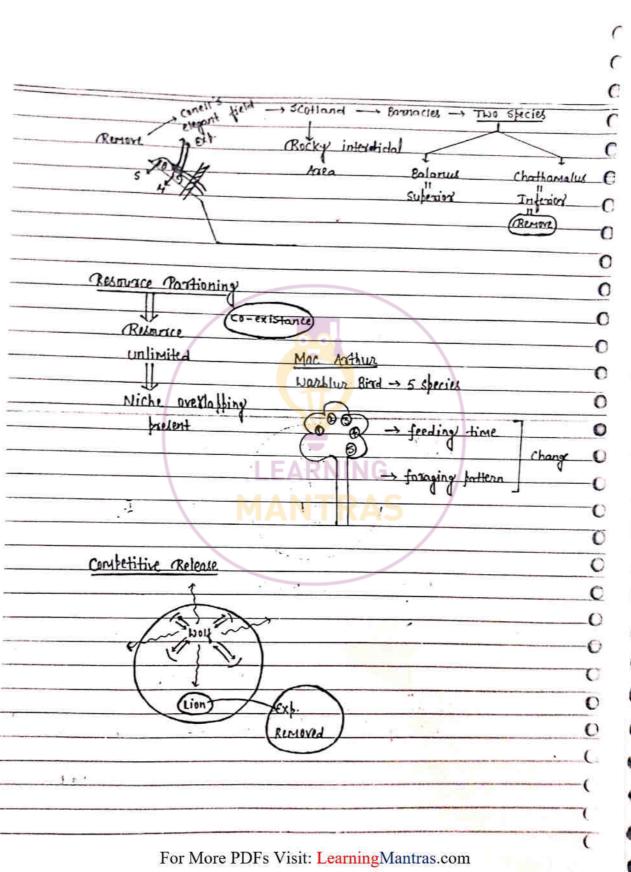
control one living org to	another linkey ong".
(ix) Biological compol methods -	Rosed on Indon's
Eg-(a) Gambulia Comban ,	desquite by eding
(b) Howk -" - Birds	
Note: - Predators are Prodent They do not show Their pary Defence	in notice 77701 - Animal Species 227 - Plant Species
Plants	- Hacene
(i) A cacia Throne	70% Animal Age Truest Shesish
(ii) Calutropis -> Cardiac Calgeria	u V
(iii) Nicotin , caffein , apium .	Nux vanice

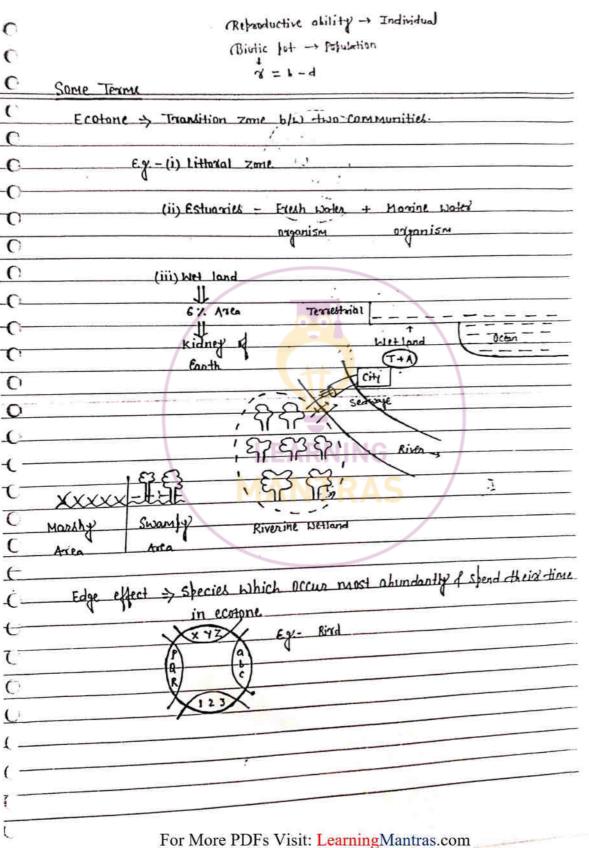
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Animal	
Fany	
(i) Campuflaged	
Insect	
(ii) Monarch Highly Callyling of	
Butterfly Distartiful Catterpillar stage	
Predator Eat seeds of Poisonnes Weld	
Bires	
2) Amentalia	—-с
(2) Amensalism (-10) (arch arcul (secretes), Transcina	Mic C
Carret grau (Secreta), Acid	0
	0
9 X SunHaveo SunHaveo	0
Chemical Allemparty of Ocimum & Cort	—с
Antiliacia	—о
Microbs	0
	0
Fungi	6
renicillium notatum -> Penicilline kill (Staphyloco	cus
Blad - Microcystis -> Hydroxil - amine -> (A)vatic (tis	14)
	76
Algae Chlorella -> Bacteriocide -> Bacteri	_ C
	O
Note: - Autopothy E.g Silver Oak	0
Note - Autopothy) E.g Silver Oak	_(_
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	(3)



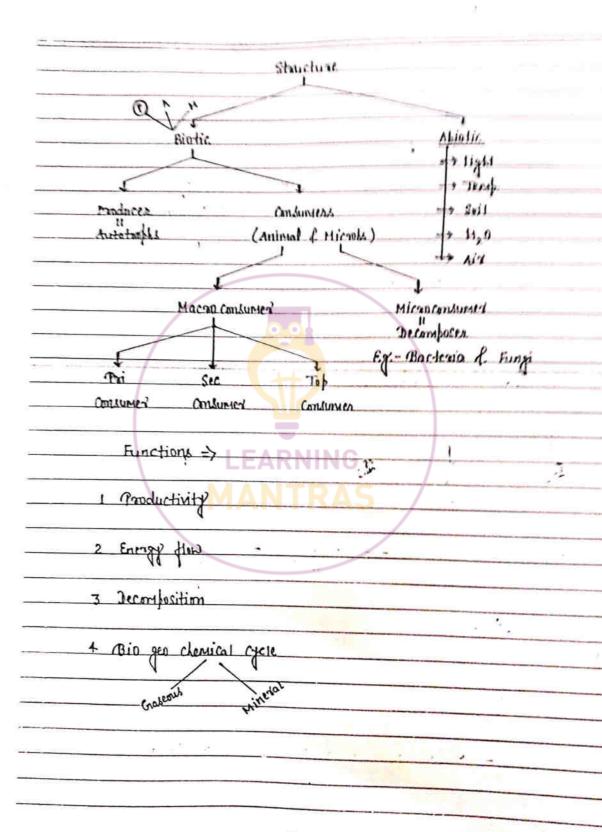
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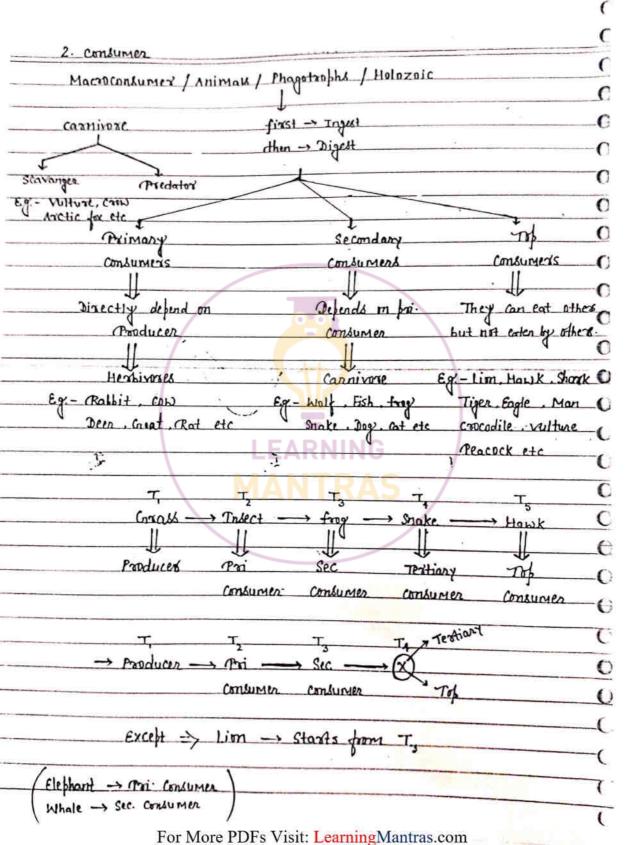


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eg.	- Aquarium
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0	N.W.
0	Note: - Photoautotrophic
0	Chema autotraphic Bacteria
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O	Maraphyte Microphyte
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0	100000 Plants
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100 Plant	LEARNING
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Cı	Biomass D Chlorophyll D
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Special -Animal Garasite Mont Manalite Ex - Leach , Sand 14 ex- Curuta, Rofficia O (Sec. consumer) 0 (Proj. Consumer 0 Interfronting Mont (Nefertles Drosero etc 0 0 Insect. eating Omnivated Cockatoach Condumer (Cropoti) Contimer Continue Consumers CENDUMER (F 169

169

5. Human (amnivare)	
Pro Sec. Top	
(a) Plant - Man (Pri.)	,
(b) Grass - , Great - , Man (Sec.)	
(c) Corrall -> (Rollit -> Wild -> (Piz) > Man is a dop consumer.	Man (Tob)
6. Milk of Milk Products	
Q.O Pg 74 Consumer. ATM -2,K3 Sec. Sec. Sec. Sec.	
(a) Grass $\rightarrow cos \rightarrow cold$ T_1 T_2 T_3	
(b) Milk \longrightarrow Backeria \longrightarrow X T_1 T_2 T_3	
To eat -> consumer To drink -> consumer	*

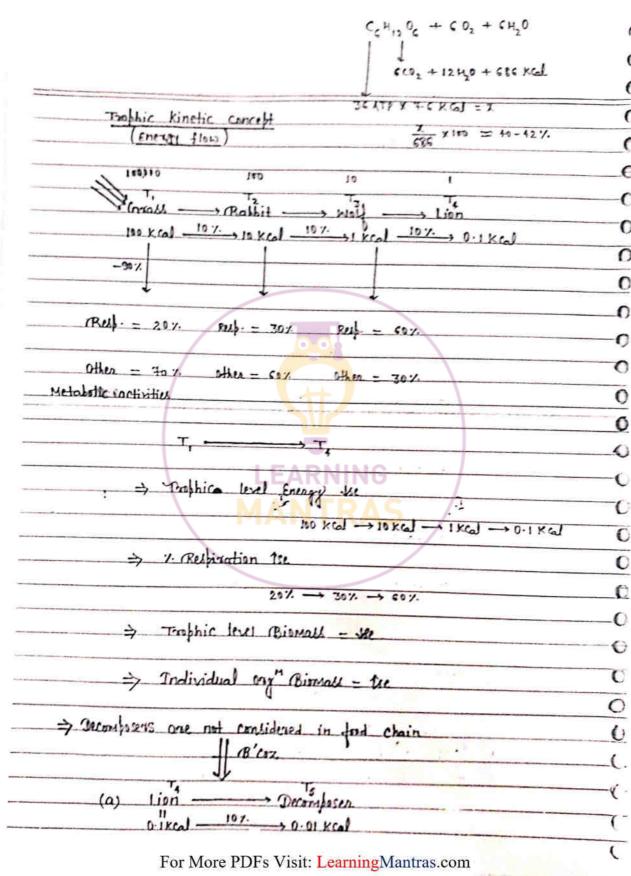
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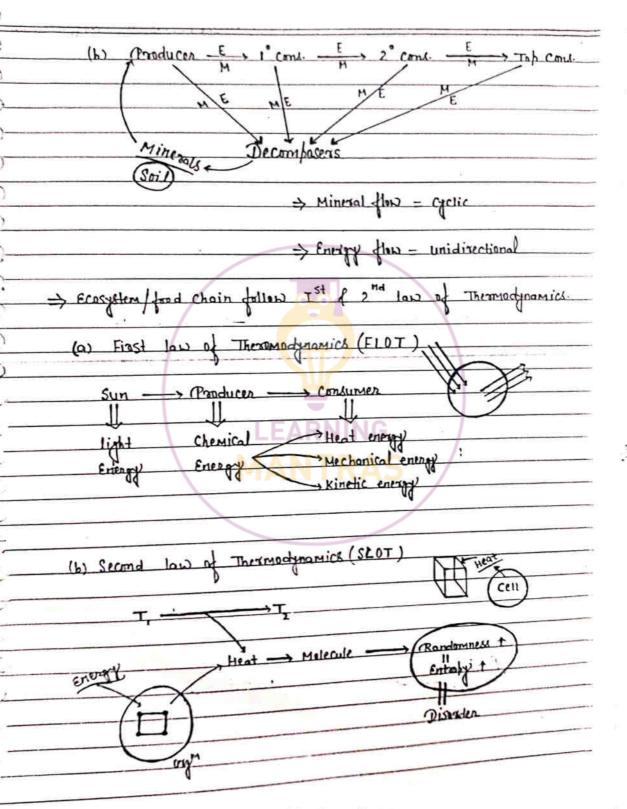
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Mit regentument I becomposen 100 not this / Salmotoph / Rechucer / Transformer Mineral Month + Mira 0 Complex seg Salley - Wines C (00) Molorial Borelow Hinerald 0 (Flood a primal a socal) 0 Simple Good Makria 0 (Detoitus) Lener / Releases Hamaná my but so total released minerals some minerals one ties-0 sucception bismass that become immobile this is called Temporary C 0 C

Similar	trophic	level	3);	freeding	+T€T	होता
---------	---------	-------	-----	----------	------	------

Food Chain >
Sequence / Arrangement of organism
Sequence / Arrangement of organism according to their find habit
Grass -> (Rabbit -> holf -> Lion
Trophic level:-
> Specific position/place of an organism in food cha
> Toophic level represents function level not a Speci
Corall -> Intect -> froy -> Snake -> Peace
(nrass -> Rat -> Snake -> Howk
MANTRAS -/
$T \rightarrow Produces \qquad T_s \rightarrow Sec. consumes$
T> Pri- consumer T> Terationy / Top Consumer
> long food chain = Not good
> 3-4 toublic levels - Healthy food chain
H B COZ
Energy transfer from one trophic level
to another trophic level accur according
to another trophic lever according Linderson to 10% Energy transfer law of Linderson (Trophic kinetic concept)

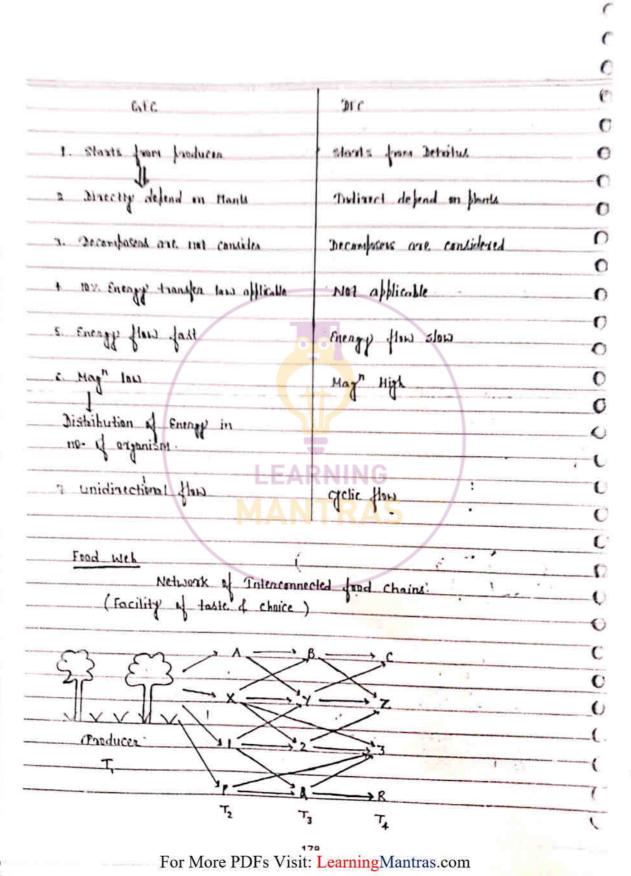




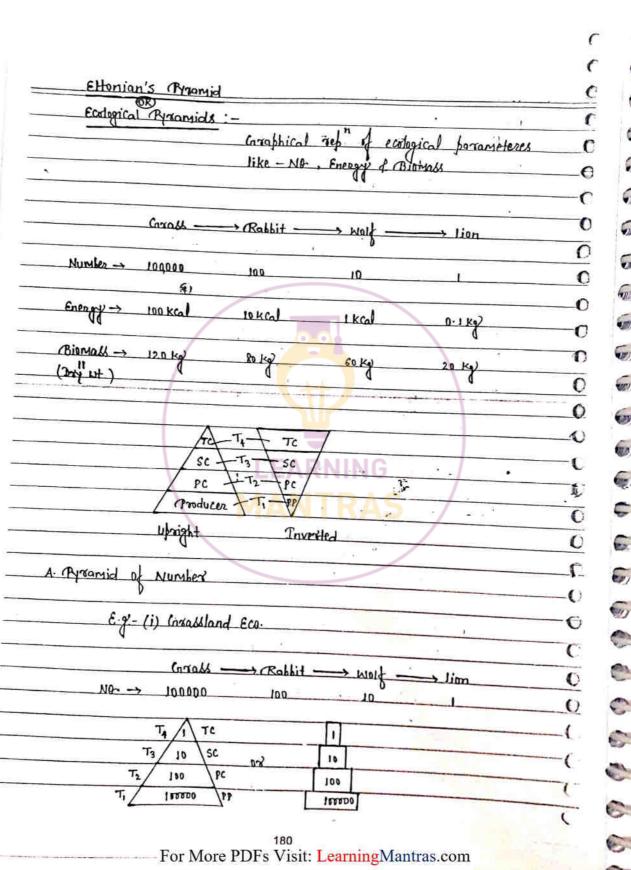
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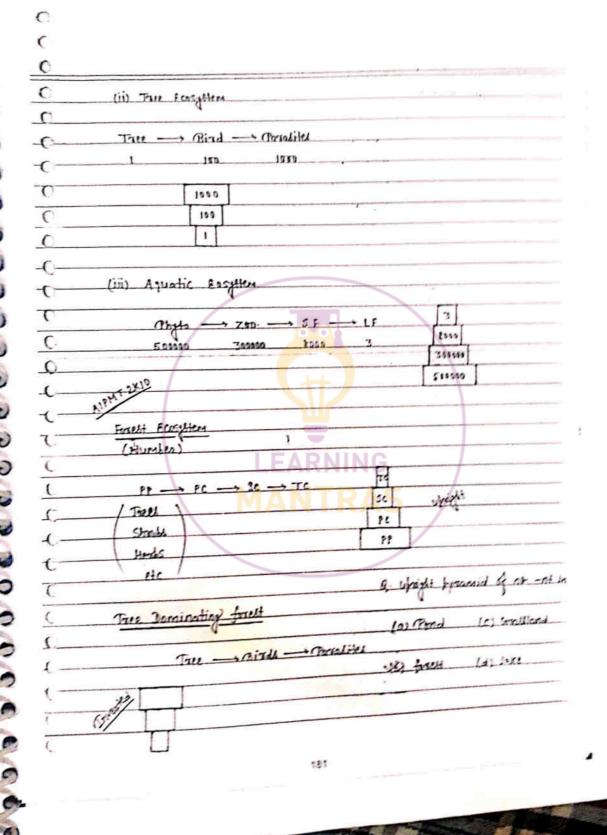
Types of tool chain	(
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Small large Producer	-(
Producer Producer	_0
	0
Terrestrial -	C
Greats -> Rabbit -> Welf -> Lion	-0
Mustic	-C
Phytoplanktons -> zorplanktons -> Small -> large (Hark)	0
dish dish	O
	0
2. Parasitic food Chain (PFC)	0
	~
Producer Producer	-
Producer Producer	C
True -> Birds -> Porpolites	C
Ist grantes	-
المنافلات	-1
3. Detritus food Chain (DFC) -> Rate of flow of energy is show.	-0
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- T	C
& & + Animal Bagteria	O
Detritus fungi !	_(
	-(
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Note:-	In Aquatic	Emplien - Flow	of everely m	with out > Brc
	In Terustrial	Ecosphen -> Flow	of every time	bfc > GFC
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Sunderbans/	Manymore			
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	fungi	Malhula	fish	Bird
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large (PEE)	\sim		ain frod cha	in → DFC
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<u> </u>	_'		* *	
Main sad	chain -	(n) C		
9	For More PI	DFs Visit: Learn	ingMantras.co	m



Biodiversity 1 Food
Web complex & Stability
No Species 1
Note: - David Diversity 1 > Productivity 1
E.g Impical Rain Tilman
Forest
> less impact of Allien species
No of species + > less year to year O variation in biomass.
Biodiversity 1
Fred Web Phylith Airplane -> Ecosyttem
The Pith
Simple E.y. Arctic/ Rivet paper Hypothesis wines - key - stone specie
Simple E.y. Arctic/ http:// http:// wind -> kry - stone specie
less Stable
Stable -> Change -> Resistance
Ecosystem 3 Resilience
Homeostalis
Self regulation? self control of an ecosystem
that relist changes called as Harnenstasis.
Q
=> Science that deals with the study of homeostasis of
an ecosystem is called "optennetics"
4 desirement
=> Food Chain do not exist
Q. Bosystem have :-
to food web (h) food chain wax Both (d) None
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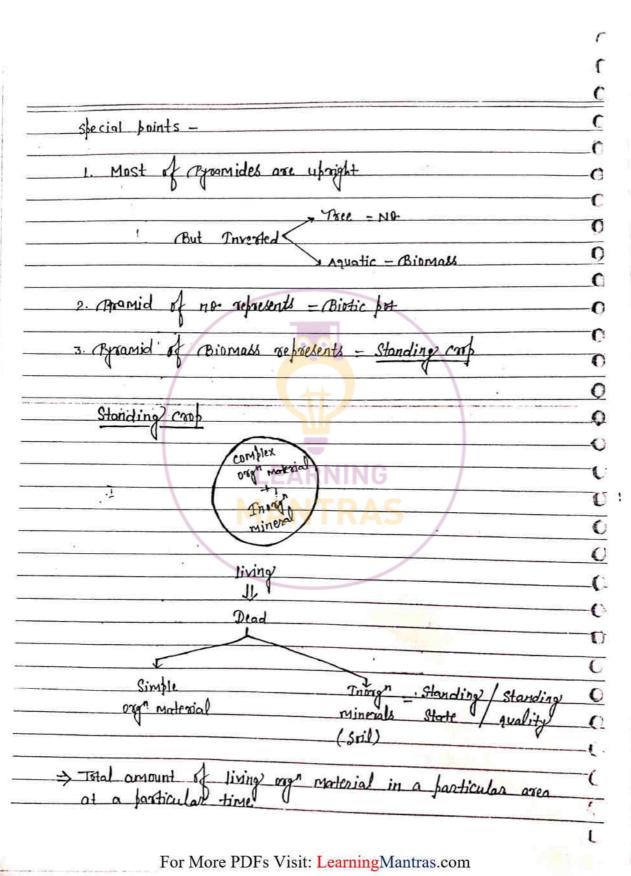
	Tree Dominating forest	(a) Pond (c) Grayland
	etc '	Q. Whight byramid of at -nt
	Heads /	
	Shaubs	P¢ PP
	Total \	Sc upright
	$PP \longrightarrow PC \longrightarrow SC \longrightarrow$	
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	(Humber)	ARNING /
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	Obula da res	1 S E 1 T 3
	(iii) Aquatic Bosystem	
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	Tree - Rind - One	andited
	(ii) Tree Ecosyptem	
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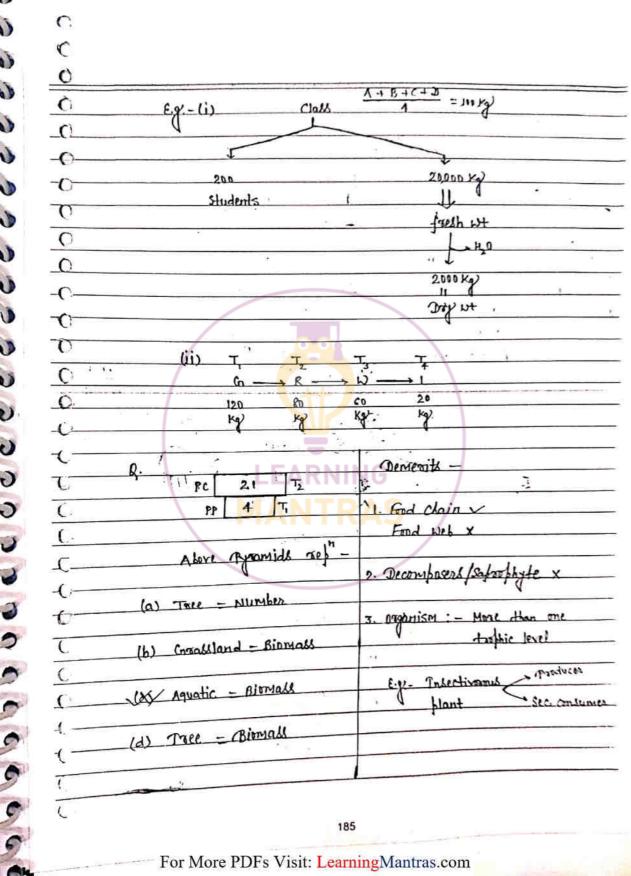
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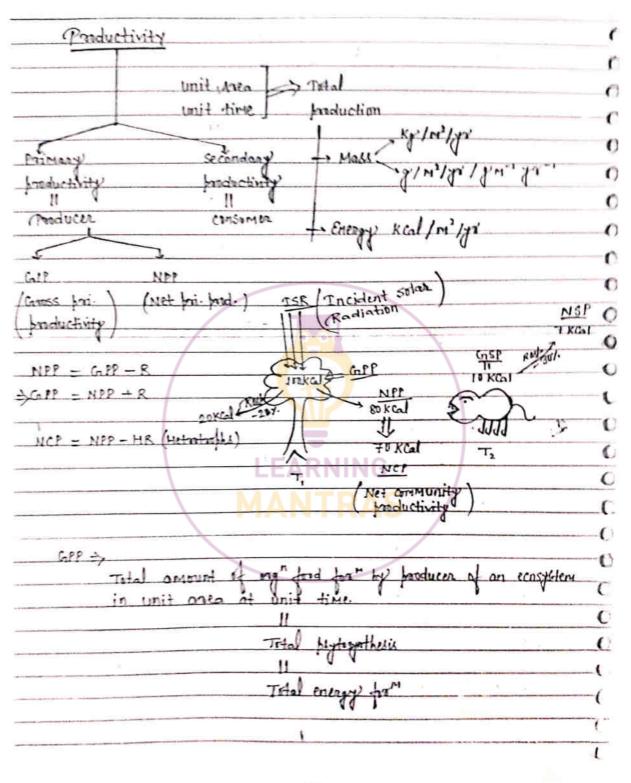
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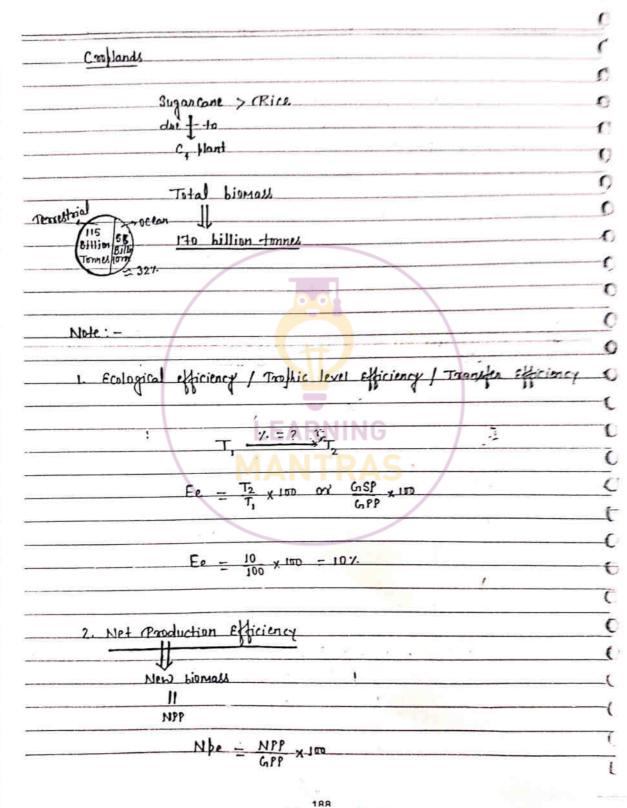




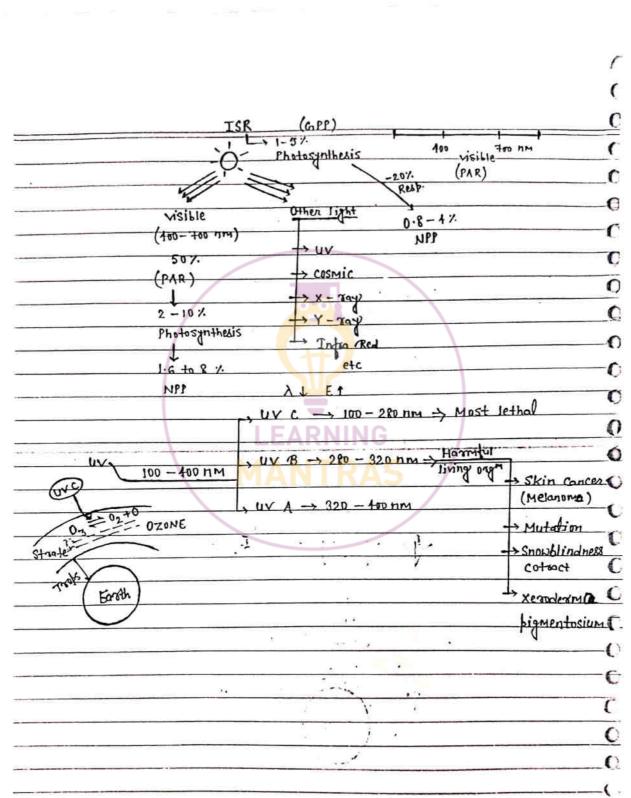


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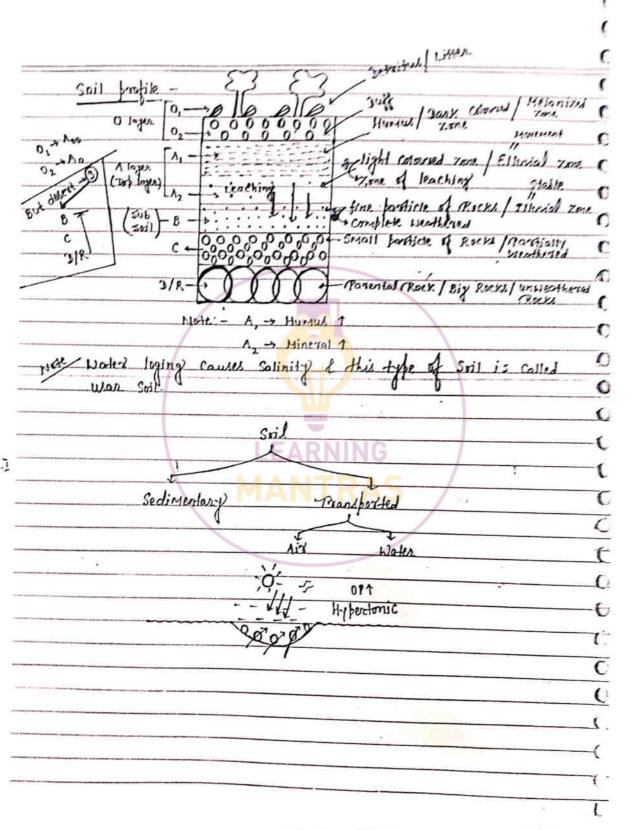


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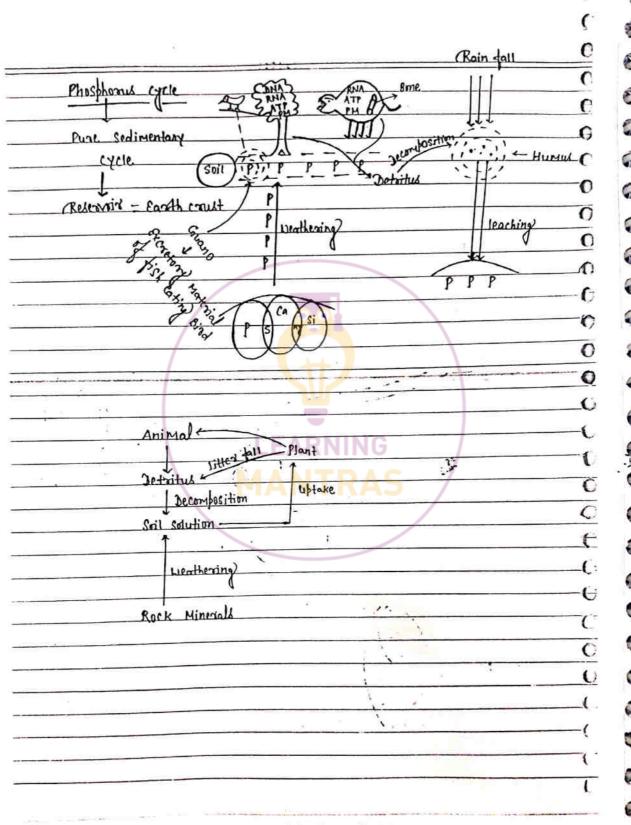
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\overline{C}	2. Moisture 1 Decomposition
\overline{c}	3. Chitin, lignine, Subonine - Slow Decomposition
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4	5. Aerobic cond = fast Decombosition
-(-	alia and - Slaw Decombisition
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C	7 Acidic PH - Slow Decomposition - Big particle - Mari Humen
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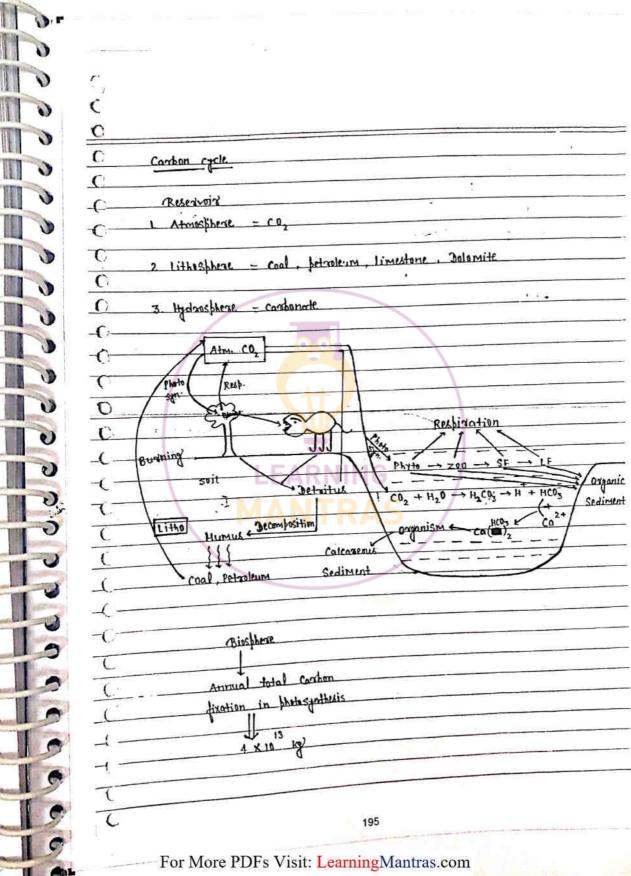


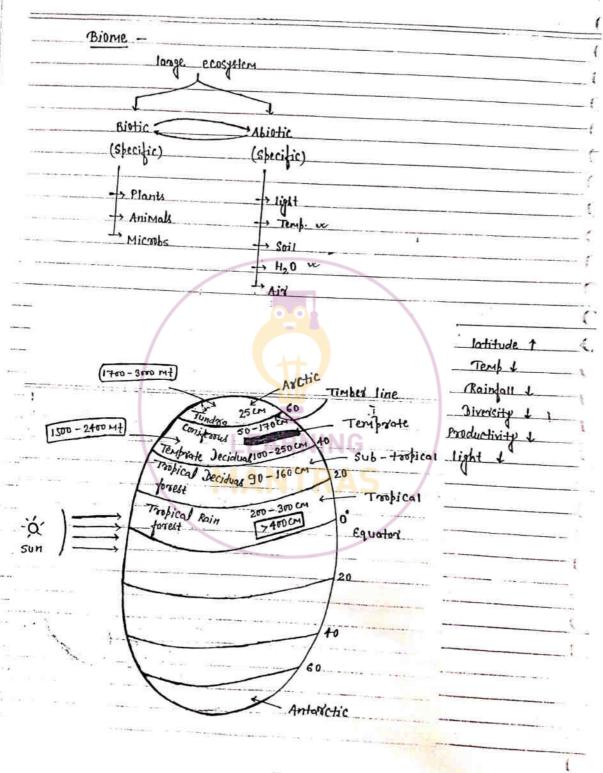
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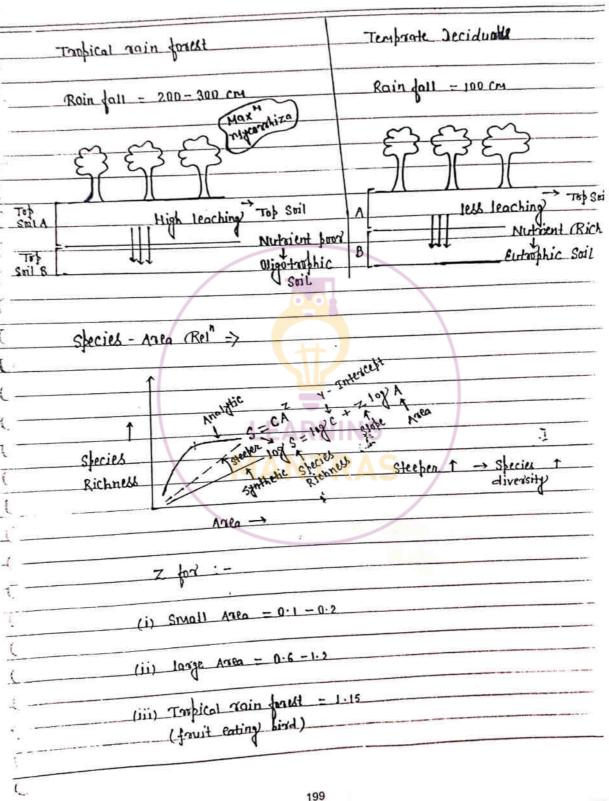
C r Water Percent (5 (Salt) 40.5 1000 (H, 0) (fresh water) C 3.0 - 3.5 0 2; Oceanic works 30 - 351000 סחול 3. Hypensaline 1000 O Biogeochemical (Reserving = Atmospher Biotic Abiotic Soil / Rock (lithesphere) Goseous + Hydro= condens Lithashere Time Reservoir. Sedimentery Earth crust etcle Sedimentary gele 33000000 Efflux Influx Bio > Punal Early 193 For More PDFs Visit: LearningMantras.com



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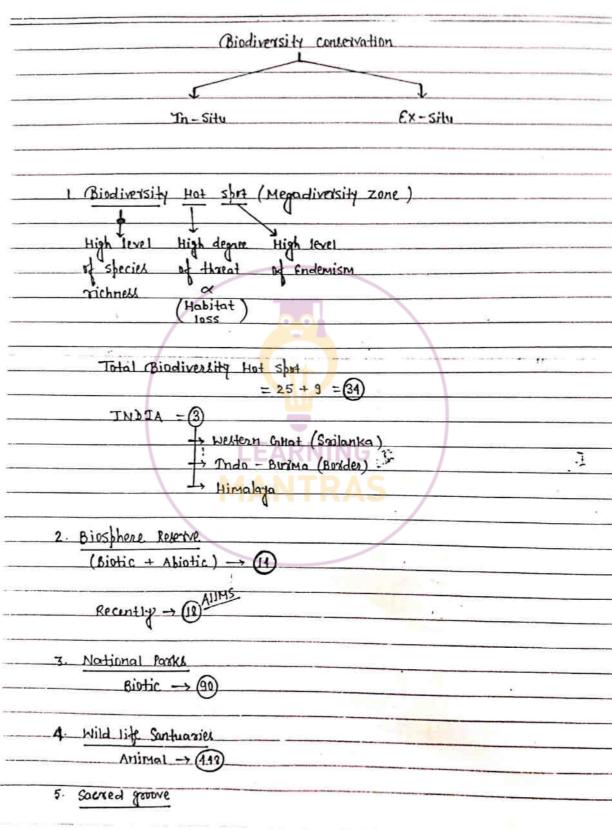


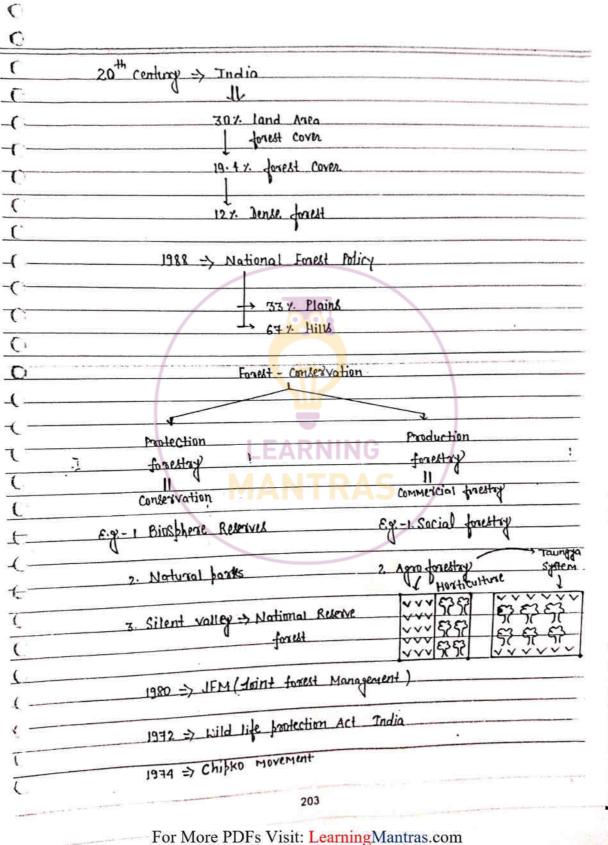


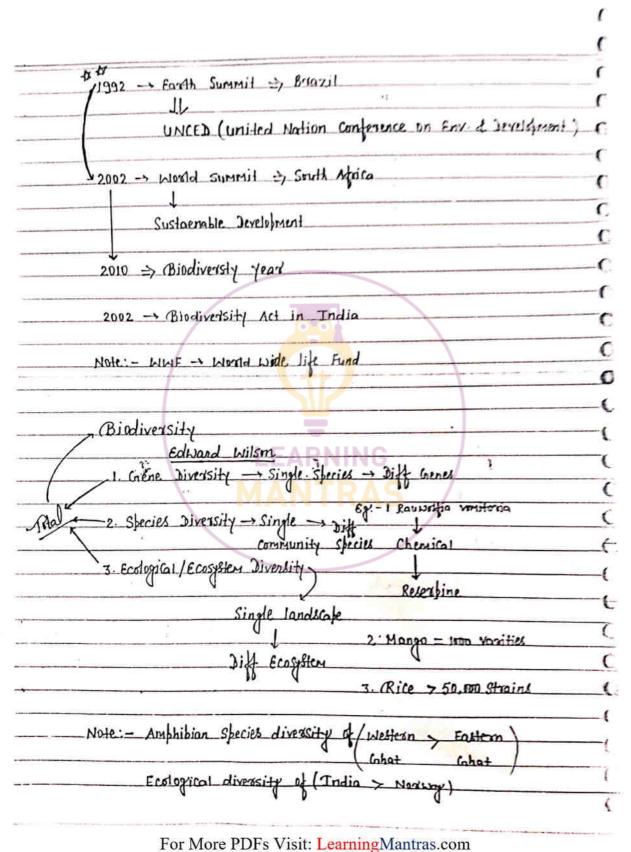
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Loss of Biodiversity	
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Pacific - Human - Bird species	
Tsland Extinct	
Allanta	
TUCN - last 500 years	
789 Speciel Extinct	
161 SPECIES EXTINCT	
-> 338 vertebrates	
	14
359 invertebrates	
1 87 Plants	
Rescent Extinction	
1. Dodo (Bird) -> Mauritus:	
2. Buagga (Zehra) -> Afroica	
3. Thylocine (fox tigen) → Australia	
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4 Stellard's Sea Cow (Aquatic Mammal) -> Russia	
5. Bali, Javan, Caspian (Sub Species of Tiger)	4
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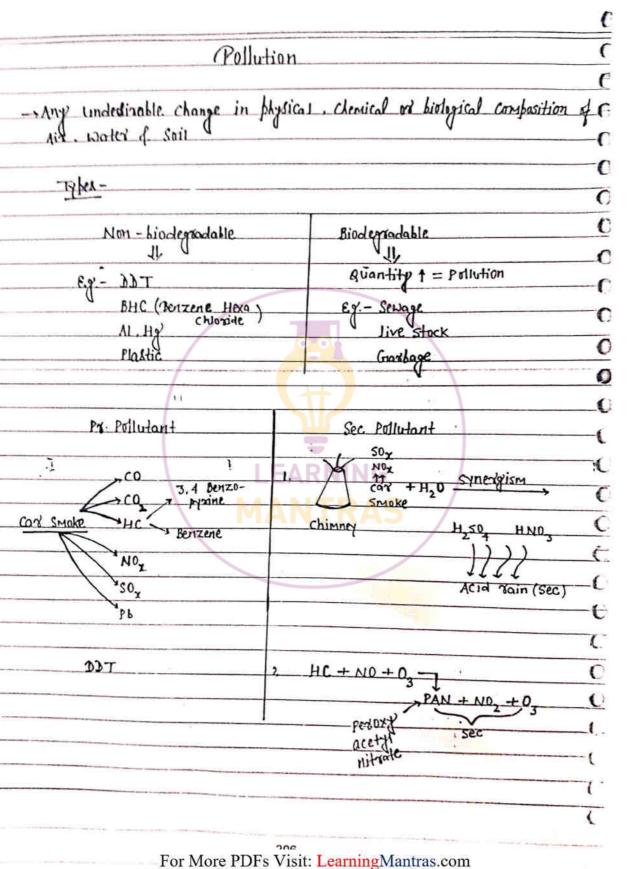
lost 20 years → 27 species (Recent 12 7. Bizds Thrieat of Extinction 32 / Anthibian Rone vulnerable Endangred 11 NUMBER T least no-Near triune Over Explaitation is nature Ex. & Culmessus (Plant) cashmeniana nicobornica & Black blick (Animal) @ Fed Johda (Animal) T- (E+E+Y+R Threatend blant Threated Plant Animal Red data brok biodiversity loss -"Exil Quarted" (i) Habital 1855 & fragmentation -> Majer (iii) Alien species Invansion (in co-extinction (ii) over exploitation 201

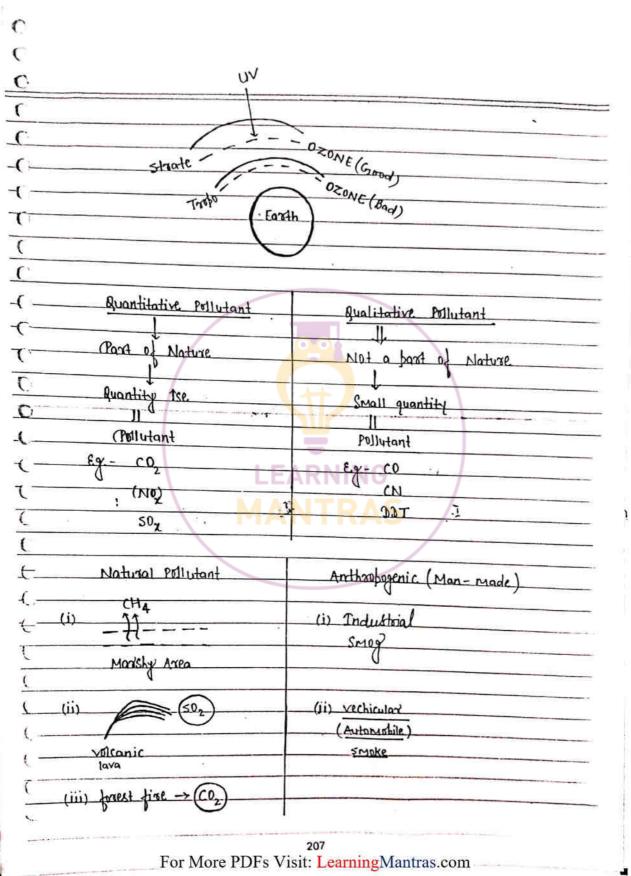




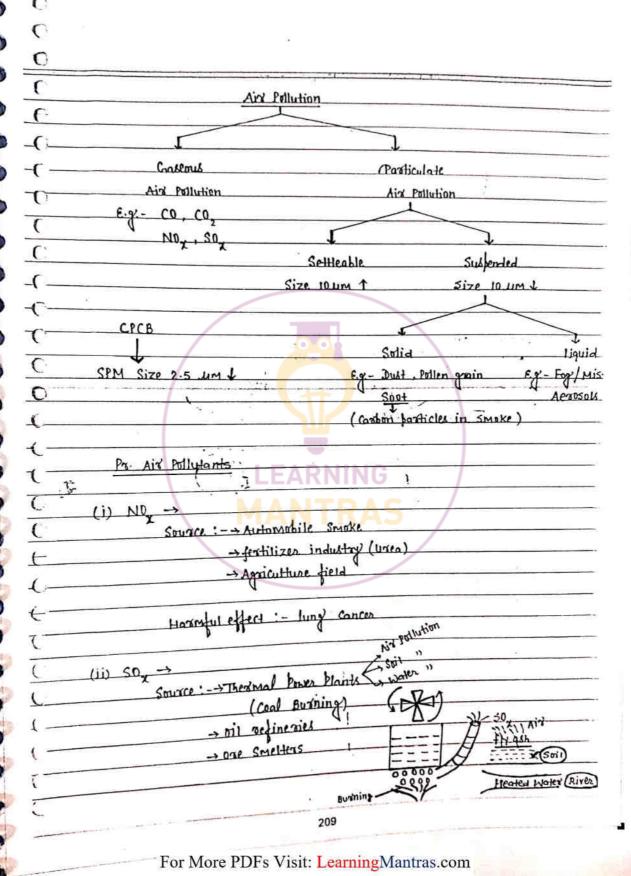


	process of company process will land Estimated Alphne
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C	TUCN (2004) → Total Discovered Species
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C	(J. F F. & million)
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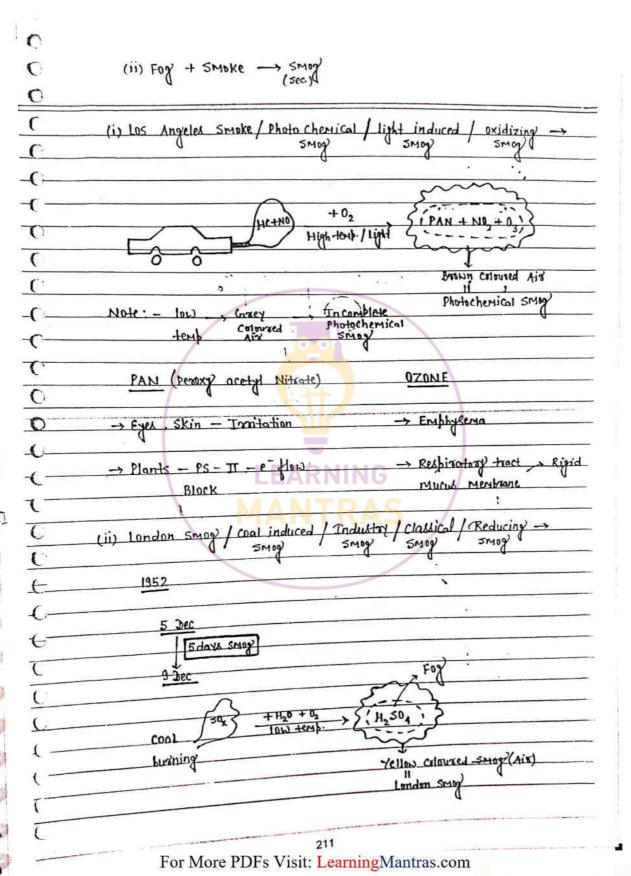


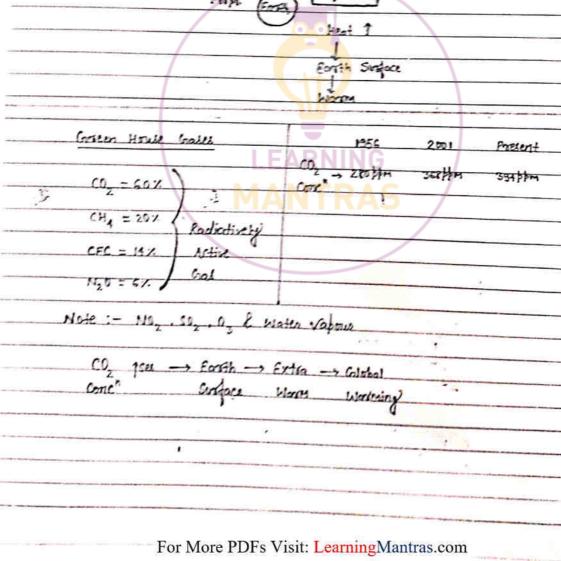
Positive -	Negative
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Pond / lake	Sewage 5
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52 /9 W	
Outdoor Pollution	Indoor Pollution
1 da	
1. Automobile Pollution	1. Mosquito killer
2 Industrial Pollution	Insectiside
2 Industrial Pollution	2. Newspaper
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	CNS



(iii) Hydrocarbons ->
63, 4 - Benzafraine Unburn hydrocarbon → Automobile Smake
Automobile Smake
> Bonzere
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Secondary Air Pollutants H_50, : HNO3
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Other Acid
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Acid Rain bH < 5.6
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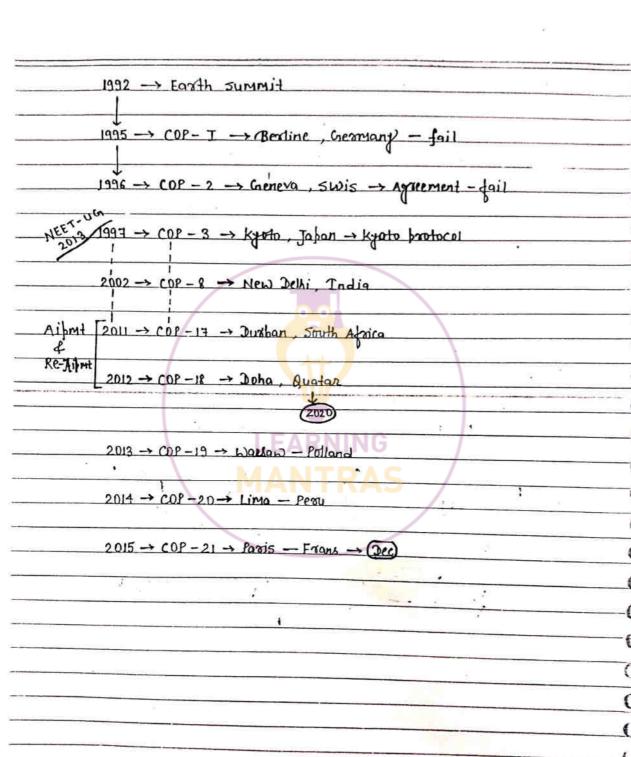
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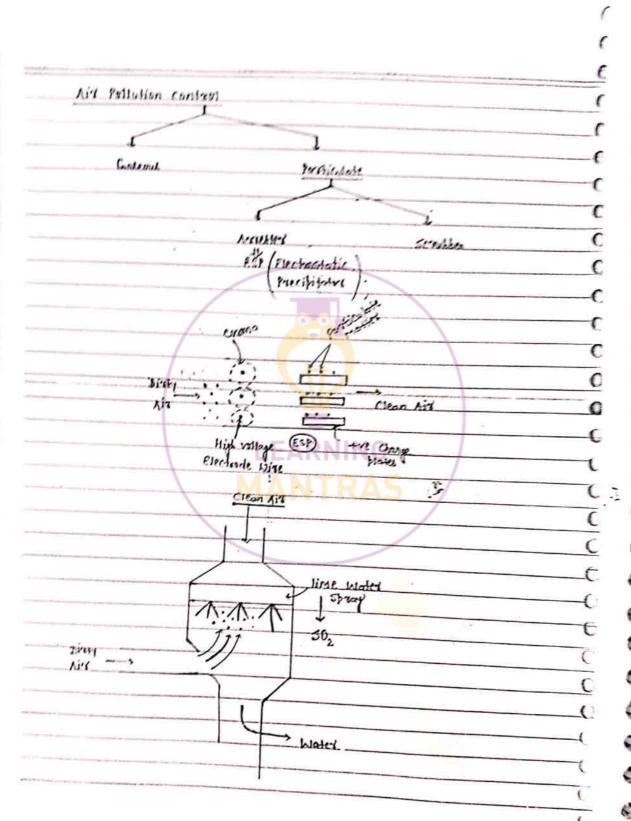


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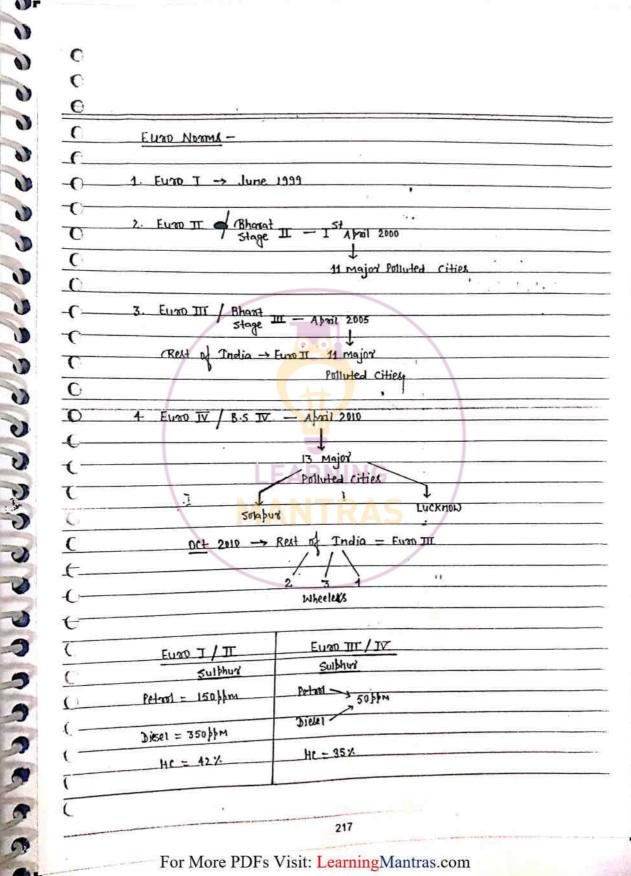
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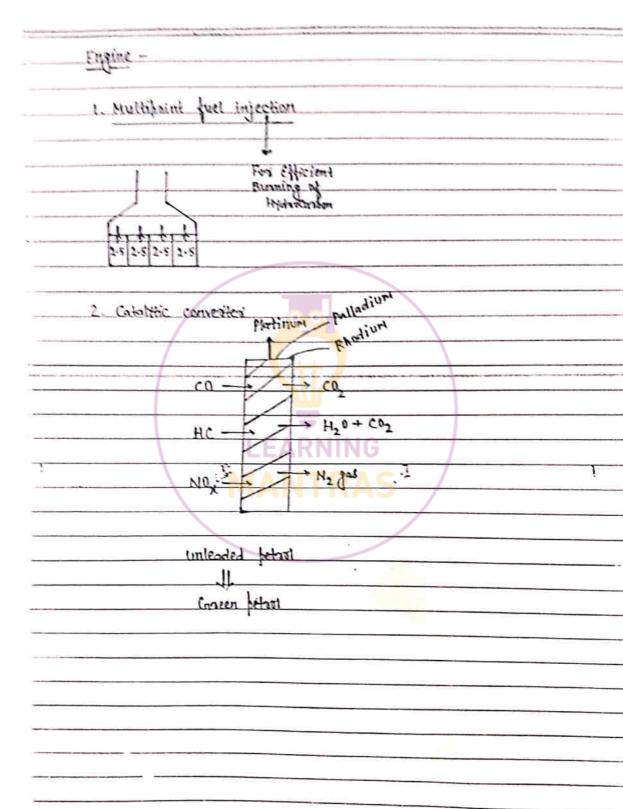


0 C OZONE DEPLETION ODS -> DZONE Depleting OZONE Toolo Earth Ozome thickness = Dobson unit \mathbf{C} Max. accumulation > low temp. Antarctica Pazone hole - Freny Jean 1984 -> Montreal produced - Canada 215 For More PDFs Visit: LearningMantras.com

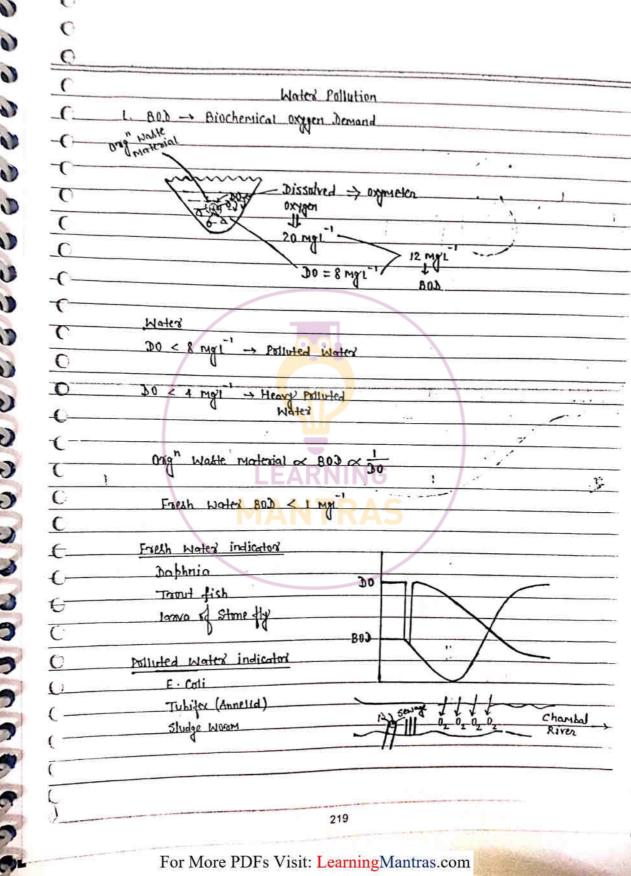


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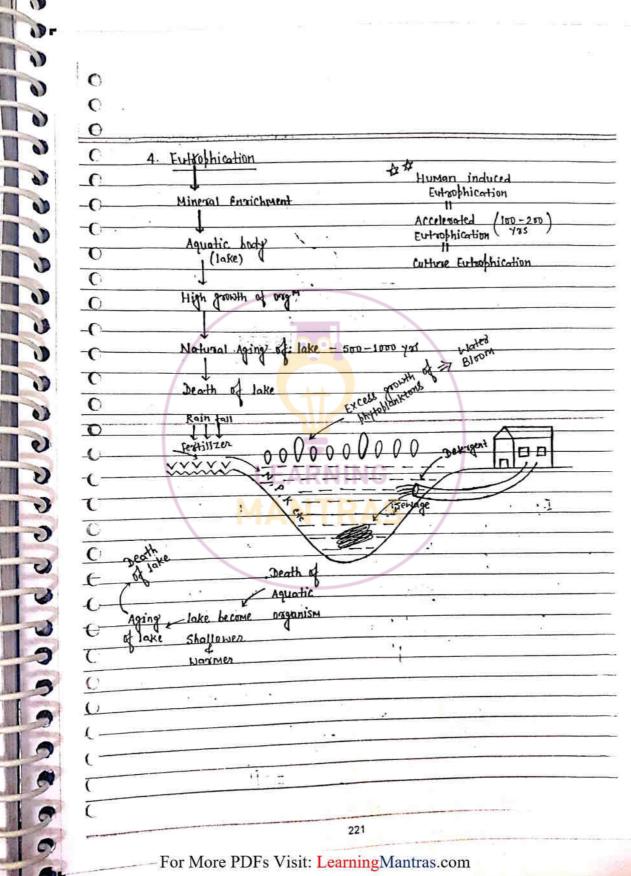


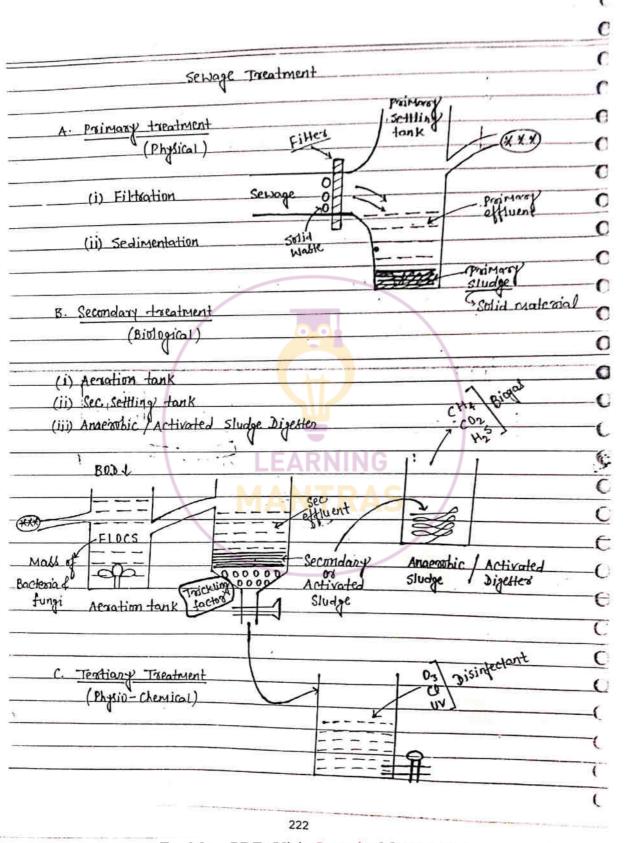


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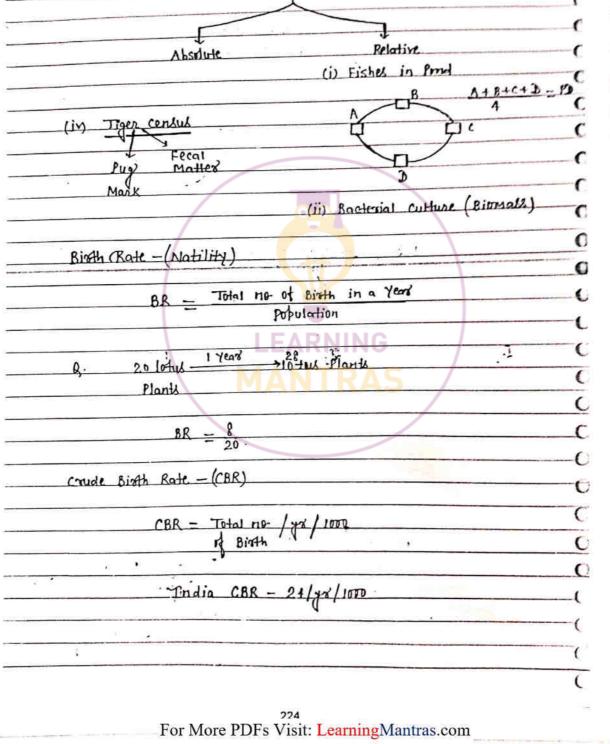
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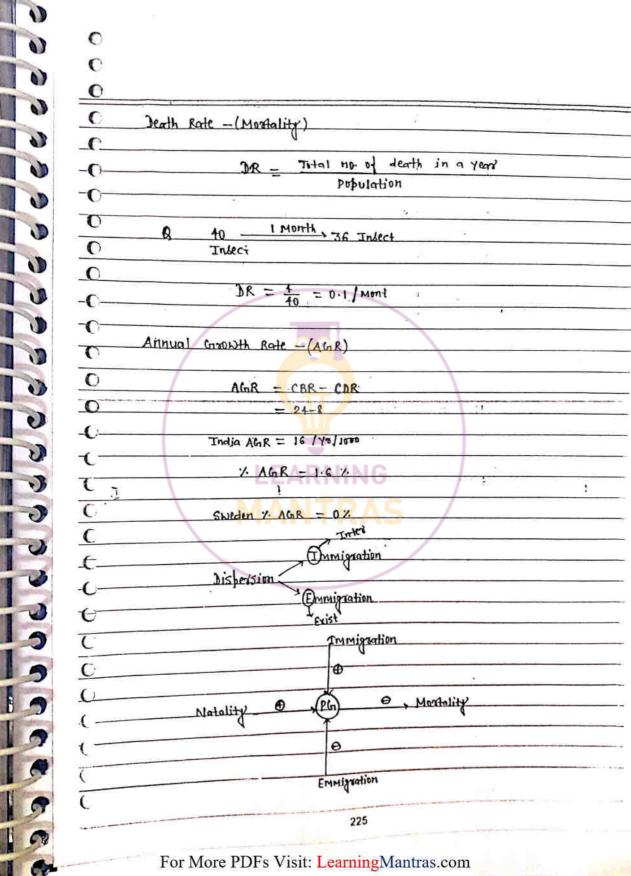
C 0 V Census - Spicial munting of human population in each decade 2001 (2011) 1.92 billion 1-21 billians 3 F7% 7 billion Population donkity -(N) C Total no of Individual India = 382 person/km² C Greenland = 15 berson / Km2 Note : -Deminant (i) 1. A36 " density 4 Biomal Parthenium Grass 223

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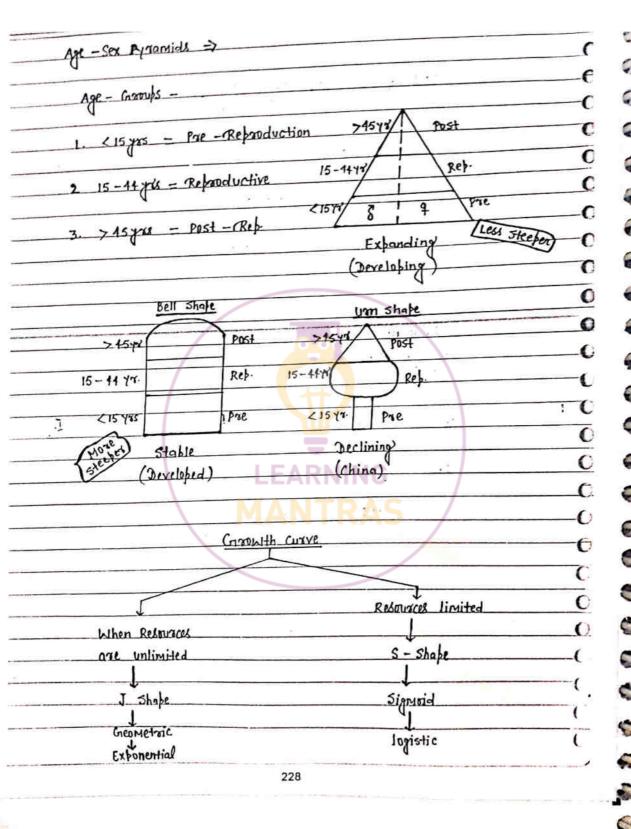


Population density

Liib



Infant Mardality Rate (IMR)
IMR - Total no of Death of infants in a Yeard x1
Total living birth
Socio - Economic
Developed IMR < 10
WEIGHPIA THE STU
Developing TMR > 10
Sex Ratio =>
Total no / 1000
of females / Males
LEARNING /
World = L: L TRAS
India = 933: 1000 (2001)
340 : 1000 (2011)
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