

1- EIA Project Screening In this step the investor share file of project with team. The team evaluate: 1 How much investment (2) Cost of project (3) location of project Assemment 3-9¢ the investment is len thour Rs 10 million, then there is no need of EIA and if more than so million then more towards nent step. This is criteria in Palaistan. 7- Project Scoping
The Scope of project is Checked: 1 Either it is beneficial to society @ Also check its impact on human life. 3. Collection of Base line Data For it, the team must has a Site visit. Check the location of project means if it is

road project. Note down following paratheters: (1) The wood pourses near population (2) Number of displaced people. (3) Lake or apricultural land is affected. 4 - Assessment of Environmental impact on the basis or desta In step III, the dada is collected now in step IV evaluate the impact & 09f pollutants oure present in air how much our is affected) 2) If pollutants are present in laker much movine life is affected by it. 5- The Impact Production. In this step, the analysts through scientific measures predict the future. The number of rehicles ohnie on the road and the emission produce from them. After 5- years at what

entent, there pollutants would peretrate in the atmosphere. 6- Mitigation Measures The mitigation measures are also adopted to counter the impacts of hornful emission in the atmosphere. For enample :-94 carbon emissions are added to atmosphere, plant more trees to eliminate it. 7- Public Participation Participartion is also necessary and for that purpose social media or quiestionaires com be distributed to check public response on project. 8- Environmental Monitory When all there steps. Completed the fire report. send to EIA. EIA term own

conditions. Furthermore, EIA team visit the project periodically to ensure that all conditions are followed or not.

when the project is completed,
the EIA team visit the project
and compare the adoptation
and mitigation measures at
the project site with its own
report. If all the conditions
are followed then project will
be appeared Operational otherwise
not:

3. Importance of EIA

EIA has Special importance to

ensure environmental protection and

for sustainable development. Its

importance is as follows:

(a) Protection of violation of

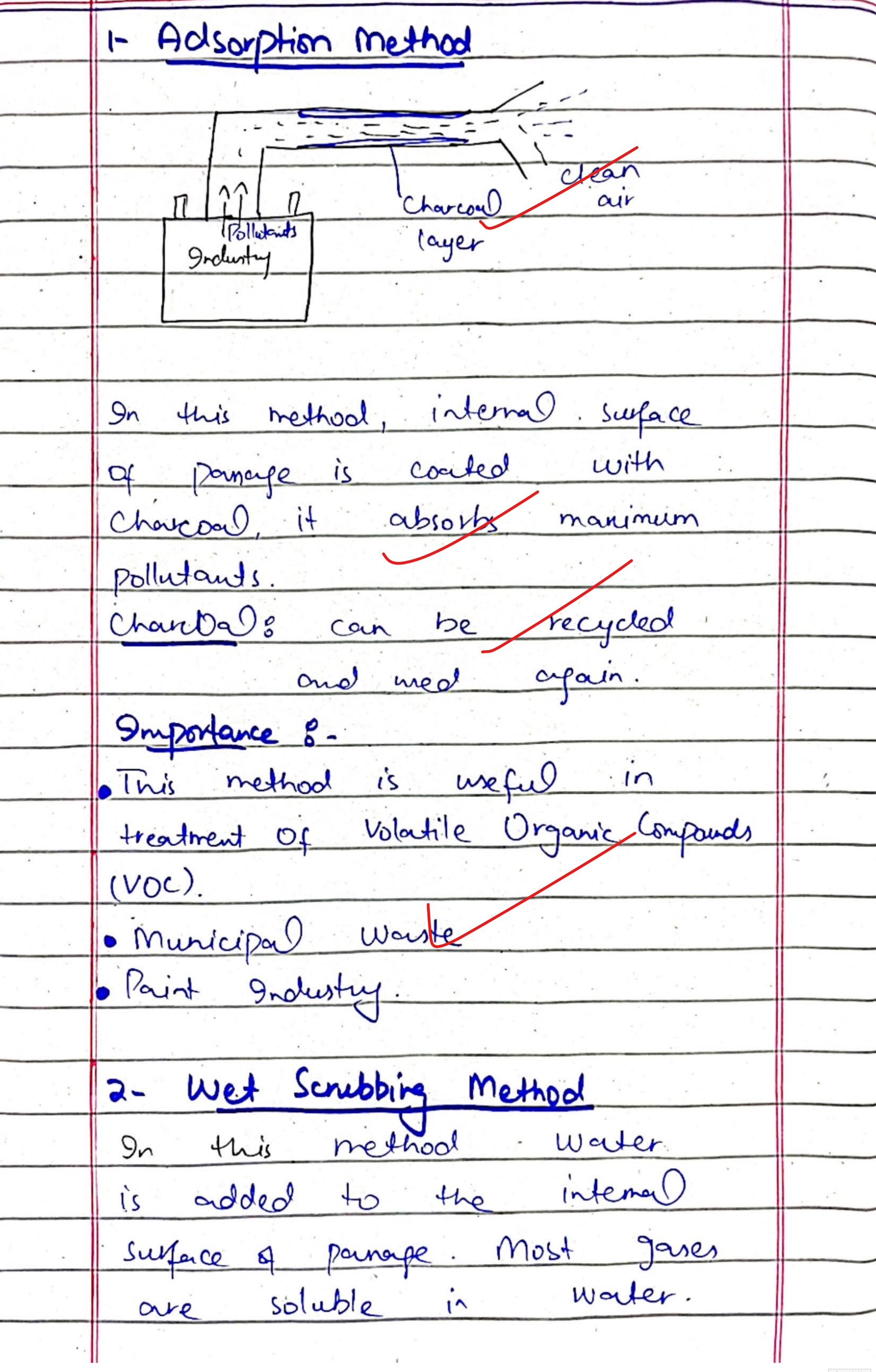
national and international laws 6
This audit with protects the

new investor from violation of

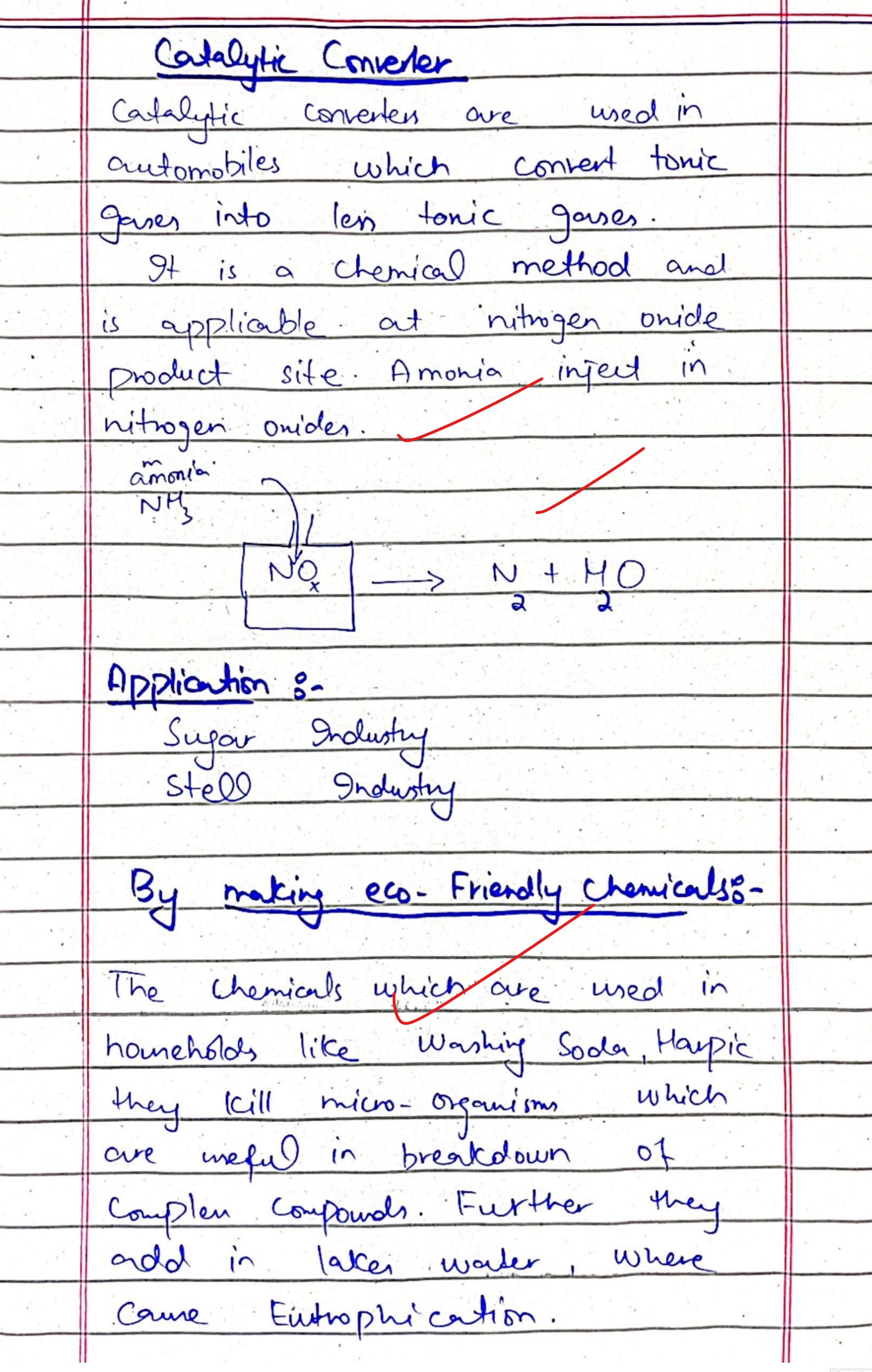
national laws. As Article 9A of the constitution of Pakistan Says; clean environment is the right of every citizen. (b) Mainstreaming of marginalized people 8-Through public participation, the grierances of marginerlited people will be mounstreamed before the project continuation. (c) Ensurance of sustainable developments EIA enrures that there is sustainable derelopment in society means all nortural resources are pierened or not. (d) Presention of biodiversity 8maintenence can biodirenity be checked through. because EIA lean check the location of and it this way forest overs remain intact.

(e) Adoptation of Mitigation mechanism This procen han special importance in adoptation of mitigation mechanism. As many industries have adopted this techniques like Tentile Industry has adopted bag homes technology. Brick Kilns are adopting zig-zay technology to reduce Carbon emission in atmosphere. (b) Science con be instrumente in managing Pollution. Elaborate Scientific measures methods to control Pollution (at-least 12). Introduction 8-Technology is the course of Pollwtion Hee-fossil fuels burning at Start of Industrial revolution- and now it can be utilized - Cartalytic convertor, hydraulie pumps - to minibelite Pollution. Few decader ago, the world Shifted from hydroelectricity Wal and oil bared electricity generation. Now, the waiter is wed

wet scrubber to minimize the smoke emission in atmosphere. Scientific methods to anthol Pollution Pollution from outmospheric to marine to soil, all types of Pollution can be minimized through various scientific methods There are as follows: > Carbon capture and storage technology By replacing stooner with electric Kettler microbial decaying process By making eco-friendly chemicals Adsorption method Scientific methods to -> Catalytic converter fontra Pallution > Zig zor technology > Wet scrubbing method > Faibnic filters and box houses > Mydraulic pumps > By planting more trees Resemblion of wetlands



Pulleted our will So. · len envilled. be clean our Water Pollulants Brick Kilms | Factory 9n Coal burning power plants it is meful. This method is used to treat SO and NO, and other gases which are soluble is worter. Zig Zong technolog 9n brint Kilm, this technology used to reduce the. pollution in outmosphere. impacts - Clean air Brickilm

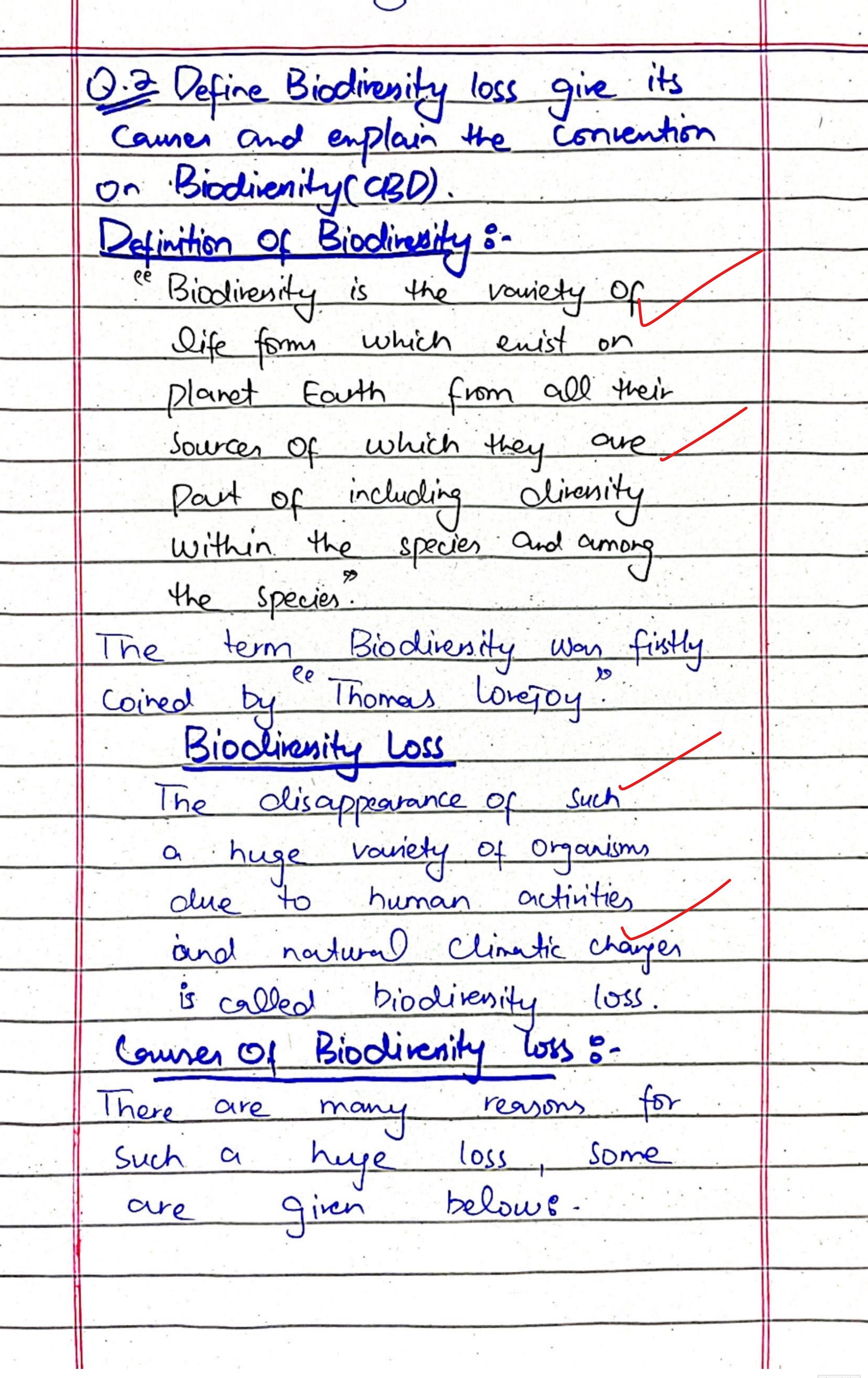


house hold Worder Chemical later Streams Ponds Monninite Groth of Algea Moument for marine life Fabric filters and bore houses This mechanism works on the Principle of vacum Cleaner. Dusticles Remore mechanially Particles Vacure Cleanener technology is meful to capture lhis pouticles of churt. SBlid Application & Tentile Industries. Carbon Capture and Storage technology Operational) CCS technology technislogy is Since

Carbon. used to capture encen - Palwants 9 notity Carbon Capture But, this most is bostly and it is not workable in Palistan. By replacing stooner with electric Kettles Parkistan's under-developed avens Cike Borden, Still people use animal waste for cooking and there is no proper sanitation nechanism. Cooking Burning and Carbon in admosphere Stoores So replace them with electric coding methods or natural gas. To avoid Pollution in artmosphere. As Parkistan is top included in Top. 10 indreable countrier of world.

microbial decaying process Some micro-organisms our med to breakdown complen organic moulter into simple one. For enaple, Composting à is a mechanism in which millo-brownisms our med, these are 3 Poto Zoans Rotifen Beettles Actinomyceles Stephylococus bacterier etc. Hydraulic Jumps Hydraulic pumps are used at goubone collection sites. These punps compien waste before incineration. My aboundic Pump Worste It reduces waste ave sit volume So it can be assily damped. Dutskirts of lathore; Gujranwala there pups should be implanted

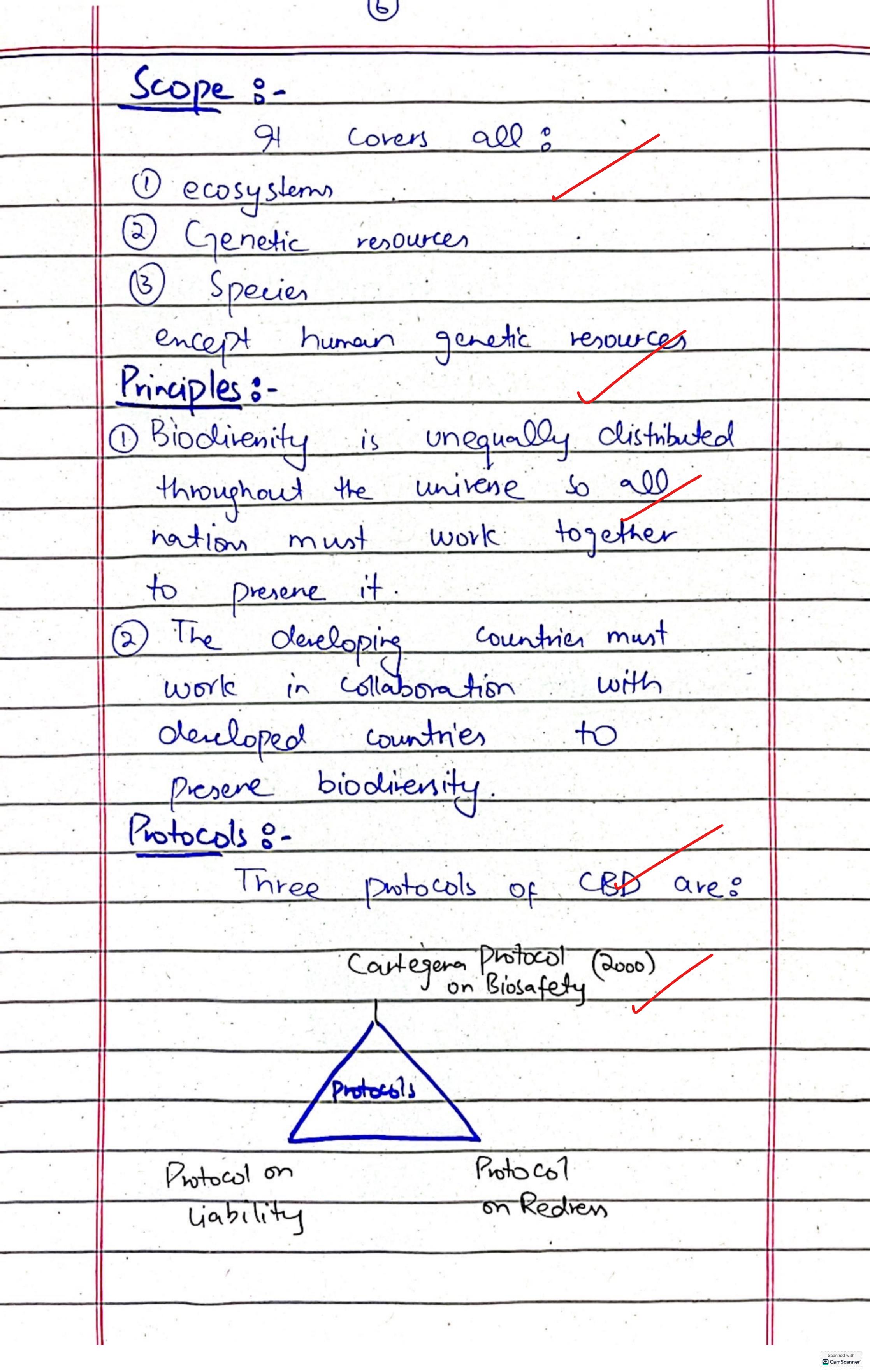
to reduce waste. By planting more trees Trees ove natural absorber of Carbon, so by planting more trees the sur pollution can be deministed. Carbon. Kikar Plants have more absorption Corpacity. By planting Mangroove Forests is another method to pollution. Resemblés of Wetland By reserving wetlands, the ecology can be presented. Benefits :-1) Aquatic life (2) Atmosphere Cleansing (3) Tourist aftraction. The wetland in behove from Kamroun Barra Dam to Sharholemach can be restored to minimize the effect of air pollution. Becourse, behore is No. 1 City of the Asia which is rulneable dear student ans is fine and relevant but it is not supposed to be this lengthy conclude the and on 8th 9th page you are writing too much data and content 8 sides of main exam answer booklet are enough for



(1) Population Enplosion 6-With the rise of population, the needs of people also invensé-(1) more houses (2) More Johs (3) More production. So, there is cutting of more trees, nortural aliscourse of unter is also Charged to fullfill human needs. This is reagon of Ropulant biodirensity loss. According to Monne Policy Journel; re About 1- 3rd of Amphibian, Manmols and birds are at the threat of entirction due to biodienity. (055. (2) Over-emploitation of Natural Resources 8-The natural resources emploited to fullfill human the reason that needs, this is biodiversity is norturally occurry out the risk of entiretion.

tor enample 3 Figh which is source of food, due to it increasing demand its number is declining. 3- Loss of Mabitat mostly biodiversity lives in forest and in order to fullfill wood and food demonds. there forest are being cutting due to which biodirenity is declining. 4- Wildfires 8-Due to entreme neather conditions, Wildfirer have become a Common occurry phenomena. 9n 2023, Wildfirer of Counder resulted in the migration of 20,000 people and 26,000 headures land war scorched. (Source - TRT Nows 2023) Floools 3-Due to entrene weather weathers, the upper larger

of water becomes worm which more away and to refill it the water from laver surface more upward. This results in larger worder Would which cames floods in low land areas (conster) oriear). 9n 2022 Floods come in Palleistan which & caused a loss \$30 bn. major effects à 1) Displacement of people (3) Loss of Earther 3 loss of Agriculture products Convention on Biodiversity loss The convention on Biodiversity loss 1992 war adopted Rio Summit. Objectiven 8-Consernation of biodivanity Sustainable maye of it Share its benefits and equitably.



Participants:3-196 countrier oure participants 0+ CBD, encept Four United-Nations member stades. UN convention on Biological diversity Theme of 2024 Biological Convention B ce Be part of plane" 9n COPIS, an agreement was adopted to converse 40 pc of land around coastal areas of the world. 9mplemention of CBD 3-1) The participants must include Biodisensity agender in their to national Docision Morking. 3) The Stateholder must monitor the biodiverstical changes. All the stakeholders must Presene the indigenous consention Practices.

(b) African region faces desertification. What are the Courses and effects of desentification) to Shed Light on UN convantion on devertification. Desertification 3-Desertification is a process in which fertile land 15 converted into infertile land due to natural and manmade reasons. Desertification in Africa 8-Almost 45 pc of land in Africa hou been converted into desert and & 55 pc is risk of desertification. The regions in north of Africa are hyperarid while centrer Africa ave humid. Desertification is a mayor challege for Africa but to world crisis like 9sraeli- Palestinian conflict. Ukraine. Runia

conflict, the issuer har been	
suppressed.	
The UN Food And Agriculture	
Organization sortes that?	
"Africa will loose 2-3rd of	
its anable land into desertification	
by 2030 if desentification is	
not stopped?	
Courses of Desertification.	
1 Overgroting 8-	
Overgrazing is one of the	
major reason of deservention.	
The hoover of animals pressurited	
land and the soil pores closes	
So water instead of percolating.	
in soil, flow over the surface.	
· Similarly, by overgrating the	
granser noutural ability to	
 grow is lost who be onuse of	
nutrients loss.	

(2) Daught g. Drought is another reason of descrification. Become when for longer period of time there is not Worter precipitation. the land will become bornen. Due to drought, the liver Eupherate has been dried. (3) 9nappropriate practices of Agriculture 3-Due to inappropriate practices of agriculture the undernamed water has driven out. Now there is scarcity of worter in South Africa and other African Stades. (4) Climate Change Climate Change is another rearon of desertification. Because entreme heat wover and high temperature result is the loss of humidity is our.

Precipitation of rainwater Keeps load moist. But when no rain and entreme heart water wares ANIO water our enquise land Charges water into desertification. · (and (5) Population Emplosion 3-After Asia, Africa is the and largest continent with respect to population. But due to drought, people cann't fulffill their food heeds. Due to over- population supply of worker has increased Water table hay Out. which has knulted toss of desemplification.

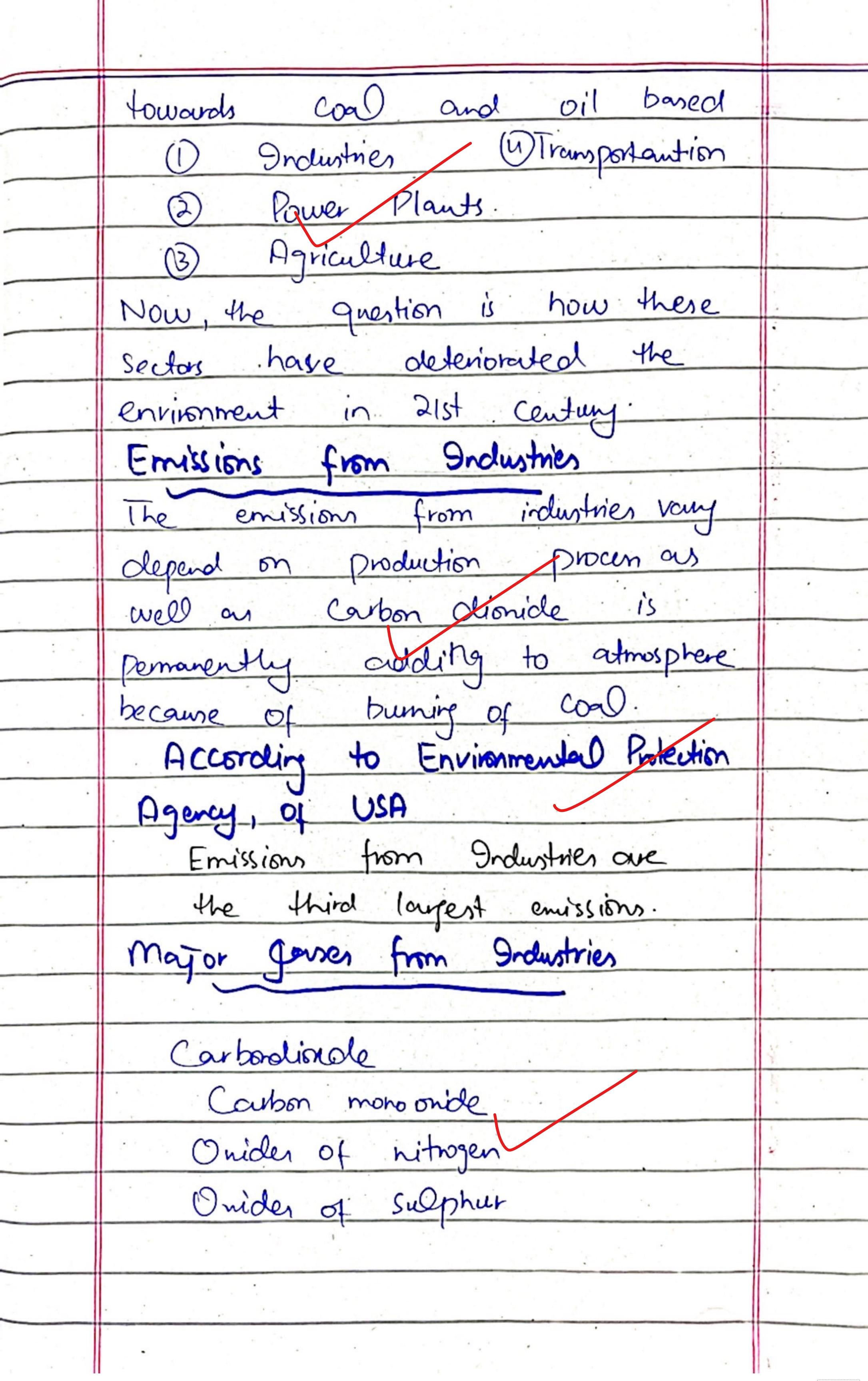
Effects of Destertification Effects of desertification are many and there are severe in nature. O Forced migration 3-People are migrating nom Pfrica to Europe and and Middle East. Due The nativer of that regions also réject them becoure of PN. culture phobia. It has oliven the entire world towards instability The food security is manimum in African States. According to FAO, Report 2023 the poverty is manimum in African region. Due to drough in Somalia almost So, 000 people have been killed.

Loss of Biodienity: Due to desertification there is a montor risk of loss of biodienity. Many African Specier have migraked to Other Continents. trample Parthenium Plant Loss of fertility 8-Desentification results into loss of nutrients which make land infertile to grow Plants. And it finally raises food concers. in Society. Desertification Ien Production cincernes. rouser concerns 9 notability in Region.

UN convention on desentification The UN convention to combat desertification (UNCCD) is an international agreement that ains to reverse land degration. 9t was established in 1994 and is the only tegally binding framework that addresses effects of drought and desertification. improving living condition of people Inprove management Sustairable Daclo Prent Objection mitigating Poverty the effects of drought In 2015, the participents adopted LEIDN (land Degraclation Newtrulity) as a primary good of UNCCD. And its moun objective is to ta halt land degradation by 2030.

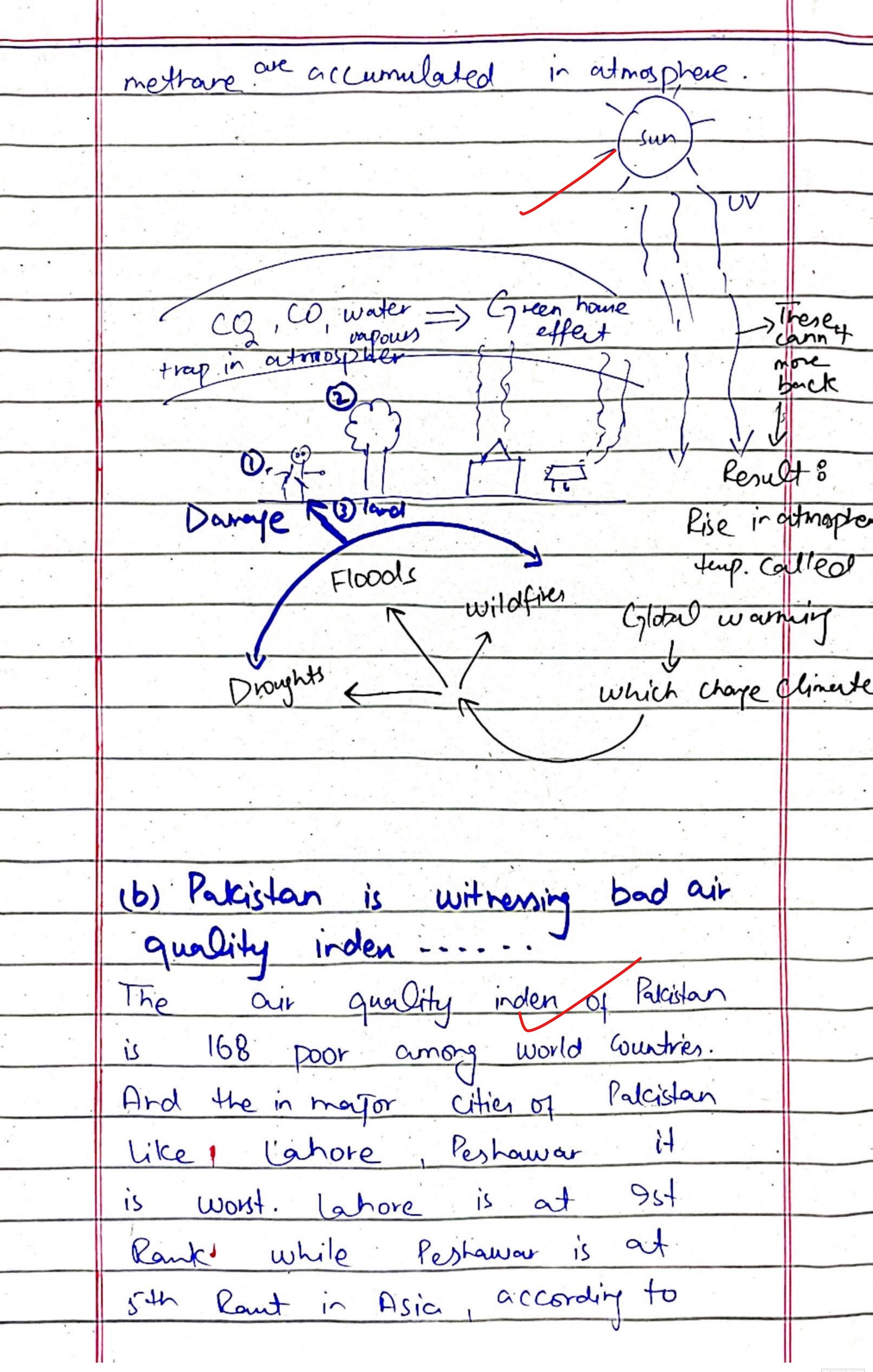
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The theme Chosen for this Year's Desertification and Dought Day (DDD 2024) "United for Land: Our legacy. Our Fustaire. and its oum is to mobilize all parts of society for sustairable derelopment. (2.31a) Industrial revolution paved the way .... Industrial Revolution paved the way towards socio- economic progresso-In 18th Century, Industrial Rewlution Started in the world and it directed world towards Socio- economic progress in the following ways &-Improved living stoundourd Increased productivity Scientific inventions Economic prospenty Base of Industrial Revolution 3revolution Bare of this Was and oil. World shifted



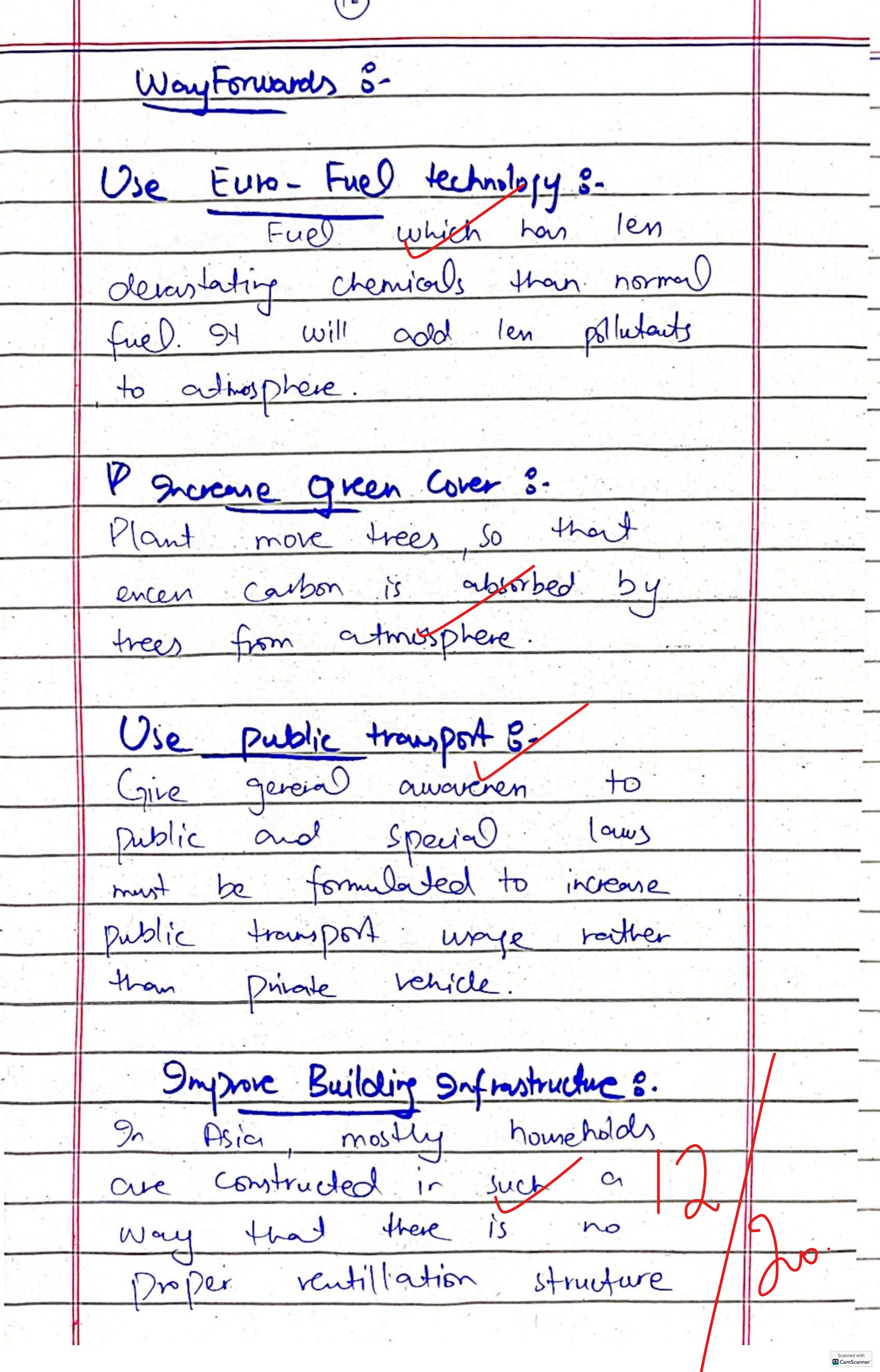
Power Plants Manimum en electricity started to generate from Oil, which left servere consequences on our outmosphere. From industrial revolution to present, about 3 trillion tonn Courbon hour added in the atmosphere. Agriculture With Industrial revolution agricultural revolution also occured, Farmen started to utilize 8 (1) Fertilizers Dil to drill worter from land. Thère added pollution. atmosphere, as nell as doinage the a worter quality at later, streams. and rivers. So the level of clean worder hou deterioranted such an entent, that are mable to drink it

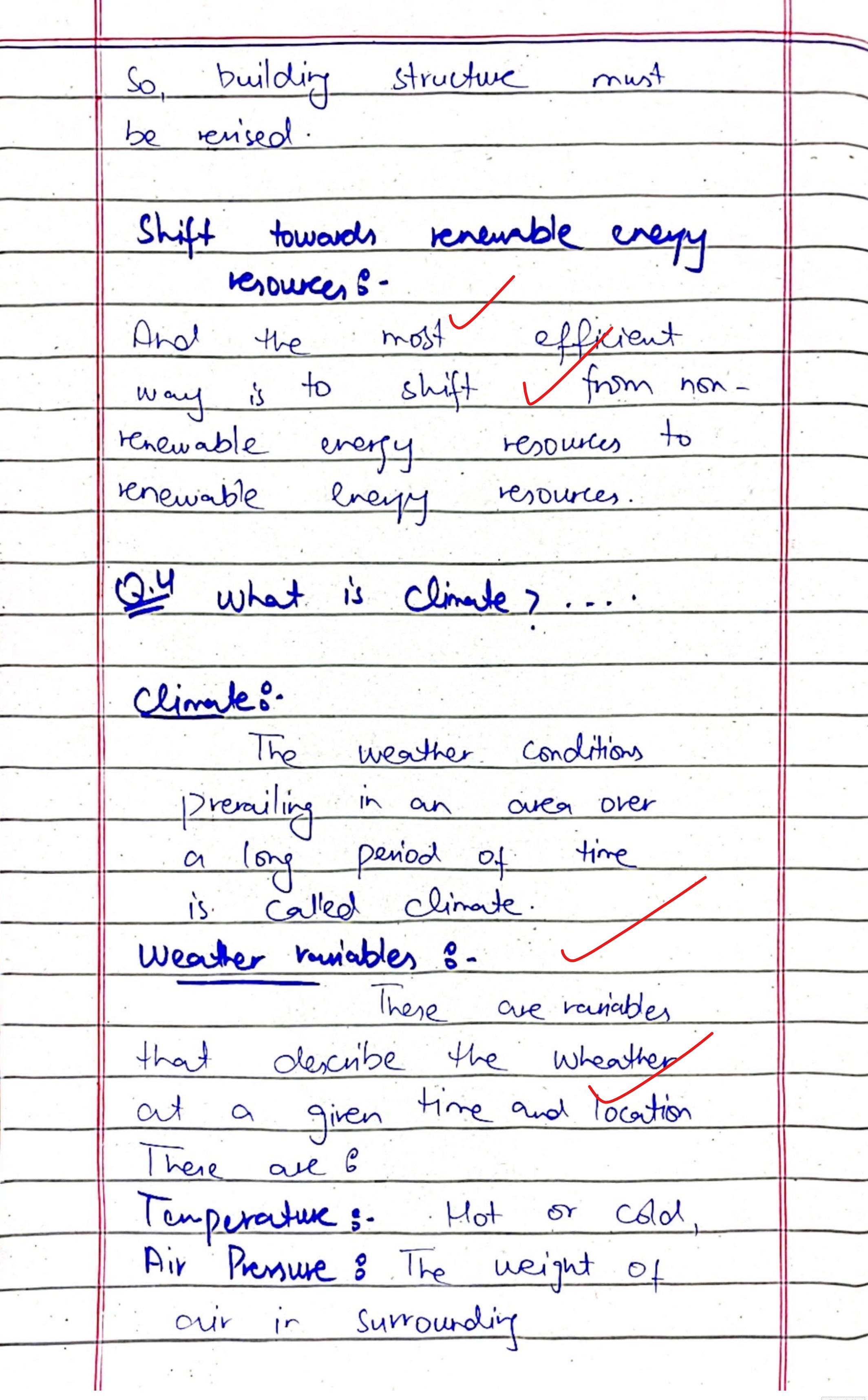
! I rouns portation Along with industrial renduction hew inventions were made, the transportantion sector also flourished. Motor cous moto cycle and other unider were invented. There rehiller add pollulants directly into atmosphere. Consequences on Environment All there developments have notor consequences on environment. Cyreen House Climate Color effect Change Warming Consequences on Environment Drought Floods Wildfires Heart would Cyreen Home Effect 8-Carbon déonide Varfours Worler



South Asia Journal. Such ai bad air in its major cities has severe effects on People and society ou a buhole.
Effects of Air Air Education sector 15 oss in business Health issues affected Agricultural effect or only state economy loss Factors behind bad our 8. (1) Industries 6-Lahore is an industrial and the emissions from factories deteriorated its atmosphere have and there is no proper mechanism to counter it both out National and individual level. Which has placed the city under high threat. According to World Bout report ? the Book Air Quality Inden har placed the Big cities

Seven times len enpertancy: Vector Vetricular Emissions 6-. and mayor factor is envissions from rehicles, more than 15 millions Vehicles over in Larhore. Which emit poisonous emissions like lead, SO Carbon cliente cliently into outmosphere. Household Emissions 5 Avoured 60% households in Parlisteur une Solid fuels for Cooking which is or major contribution to poor our quality. Agriculture Smôlce 3-A 9n Poulciston, there is old practice of burning the land waste which add Carbon dionide to atmosphere so the quality of air has been detentrated.

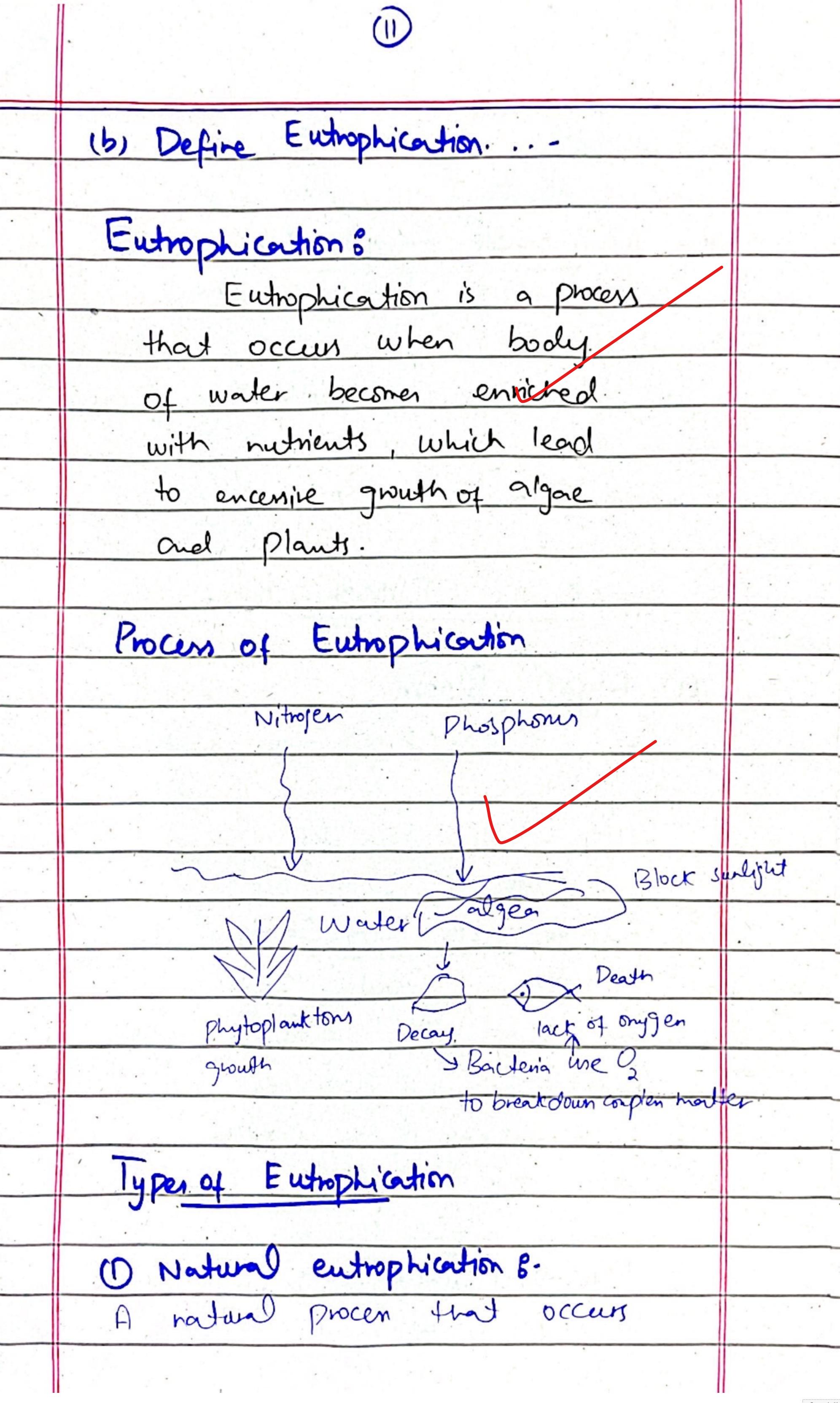


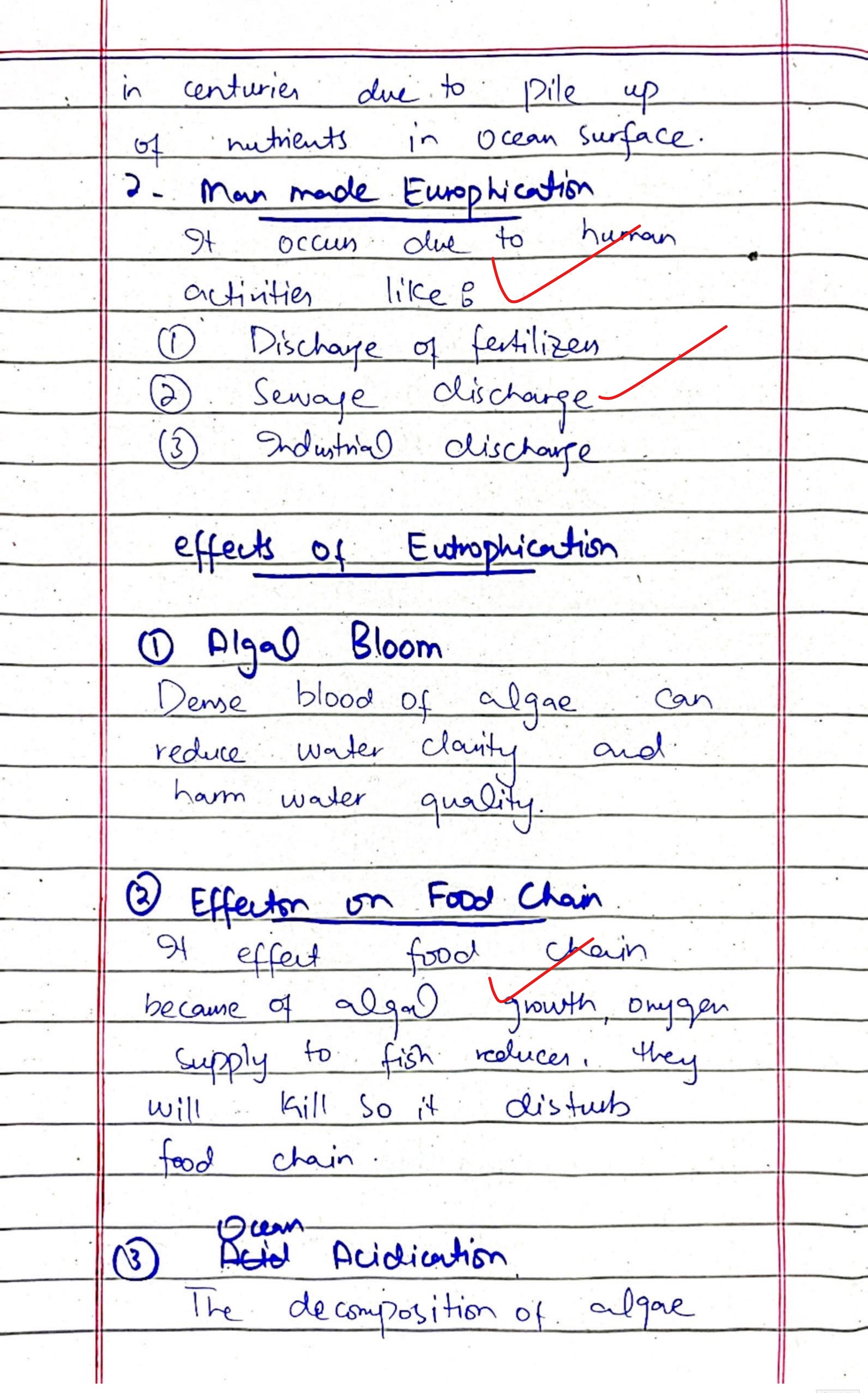


Mumichity: The moisture in at mosphere Wind & The speed and direction of wirel Precipitations Roun, Snow Cloudformation: The amount of clouds in the sky. La-Nina and EL-Nino Phenomena in content of glober Climate distribution. These periodic weather patterns occur as a result of fluctuating ocean temperatures. wirds below fromeast to west ·North Asia not water America low temp. Pacific Cainfall Deep upwellig Australia South America mius nutrients upwood normal condition

weak Earthen EL- Nino Wirds Pacific. Wheather Wreatte Pacific becomen becomen hotwater East cold west hot warm weater monson high low prenwe so len Rainfall prenut no muelling 9n 2015, El Niro loss to fishenies Sub-continent 9+ occurs b/w 2-7 years La-Nina-Opposite to ED-Nino-Eastren manimum Pacific Pacific East low presure than normal more upwealing high premuse Indian moonson wind low temperature manimum than normal, it impacts agriculture sector Floods Global Climate Distribution During EL- Nino Indian 12 henomena Continent and Australia hit with warm weather and drought. And there is flooding in Northern South America. Mule during La-Nipra Phenomena bring increased rainfall to Australia and Southeast Hsia and it can spark drought and Wildfires in Constren l'acific region mainly Southwestern Us and Menico. through to South America.

Other Region like Africa remain moderately affected.





and plant producer ag. So the PH of worder charges and it becomes acidic. Tonic Substancer 6-Euthophication add tonic Substances to the atmosphere Worler. Tonic substances like Pb, Aluminium -> worder -- 20 == 2 9+ clogs Fish gills-soleath Health Publems: Worler quality damages humains east such when health will have diseases 2 ikes Typhoid Marlania 1)ysomby Cholera

