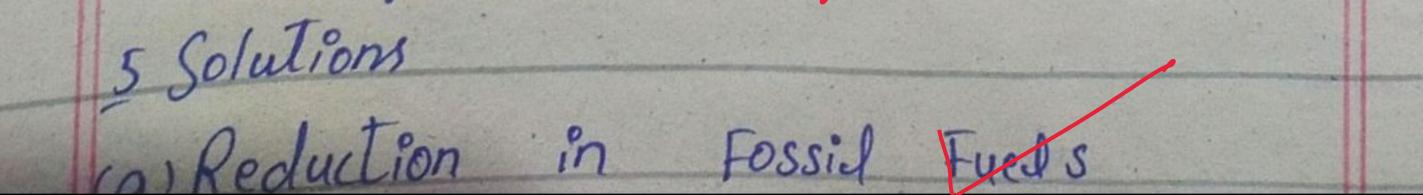
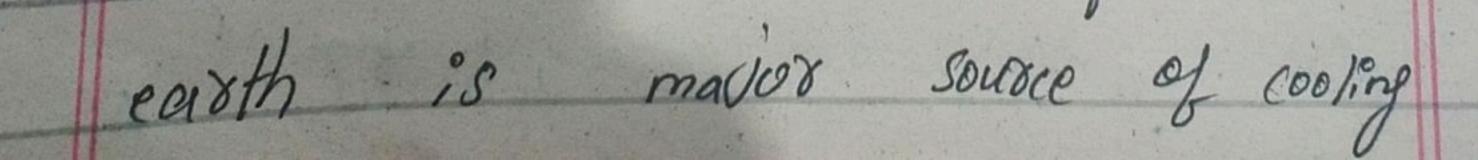
Climate Change ; Causes, Effects, Solutions 1. Introduction 2 Climate Change ; an overview 3 Causes (a) Natural Causes Exuptions (i) Volcanic (ii) Ocean Current (iii) Eaoth's Orbital Changes Activities (b) Human (i) Fossil Faels (ii) Agricultural Chemicals (iii) Concern De forestation (iv) Transport (V) Domestic Activities 4 Effects (a) Deterioration of human heat (b) Loss of Biodiversity (c) Global Warming (d) Increased Natural Disarters (e) Poverty and Displacement



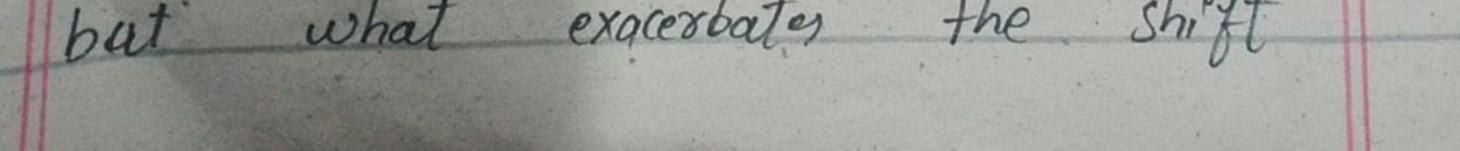
Elimat (b) Shift to Senewable, energy Claces O Trees Plantation (Forestation) (d) Improvements in domestic life 6 Conclusion The temperature is increasing day by day, these are isogular precipitations. the seasons are at extreme levels, natural disarters are more frequent, the human health is being déteriorating day by day, smogs are frequent, it seems that the woold is gradually going to lose its human and other creature's living envisonment, all of this is because of climate charge. The climate Charge is the long team shift in the Climate of world. This long term shift has some including Natural Causes Causes ocean d'aive, orbital charge etc like with human activities like alog

3 excessive use of fossil fuels huge deforestation, transport etc, that have caused effects in the whole woold sanfing from deteriorating human health to displacements poverty. global warming and increased number of natural disasters. However there ade solution to this which might reduce these objects, these solutions are in the form of reducing deliance on fossil fuels, Energy sources shift, forestation de. The climate change is not a result of absupt change sother it is caused by gradual process. There are some natural causes fueled by other Auman activities based causes. exuption is a mador Volcanic of earth. The exuption of activity underneath the earth material which Cools and solidifies on

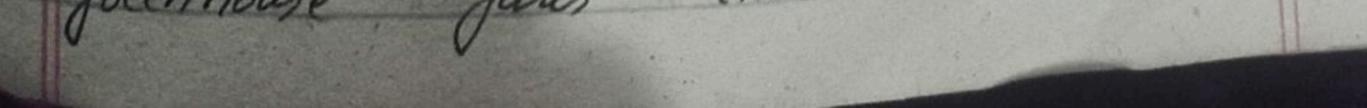


the easth but during this proces green house gas Sulphur Dioxide(soz) :s produced in large scale which then accumulates around the tasth thus causing the easth to setain the heat which is supposed to be reflected by the Earth in the outer space, and ultimately causing the increased temperature of the Earth. per-cent The Easth contains 71% of water on its surface and mostly the oceanic water and oceans are a big component 07 the Earth's température balancinf. Arive. The ocean d'aire avent often considered as the horizontal water movements is a continuous, disrected movement of water generated by a number of foodes. The change in the ocean cussent is a major natural Cause of climate change and effects the accumulation of

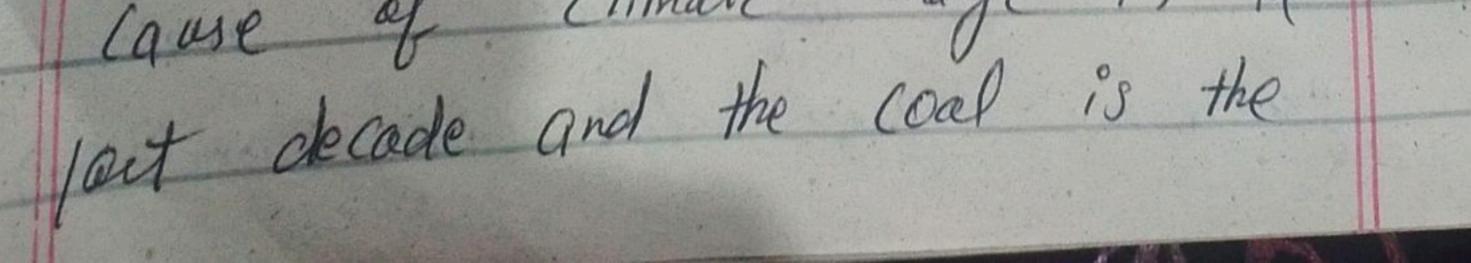
Carbon Dioxide(co) around the Earth's Surface thus increasing Earth's temperature. The Humans see charges in the Seasons Just because that, the Earth's orbit is smehow tilled and not straight, If there would be no tilt in Easth's orbit seasons on Earth could not the be en soged. Changes in the tilt effect. The severity of the Can Seasons also of these is more tilt · means the symmets will be warmers and the anter will be colder and if the tilt is less thère will be cooler sumers and milder winters This natural proces also causes the Aimate Change of the globe Climate Change is indirectly Coursed The by the abovementioned natyoal Causes what exacerbates the shift



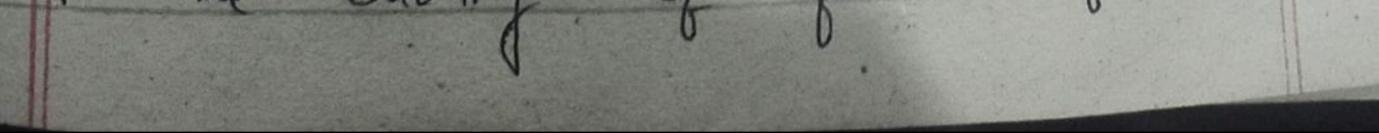
CE are the human activities. The climate change has seen rapid growth mainly by the human activities that advancing at fast pace. burning of fossil fuels is The a mador cause of climate change Its contribution to the climate charfe is approximately 15%. Jossil fuels ave basically hydrocarbon · containing material such as coal, oil and natural gas, formed naturally in the Earth's coast from the remains of dead plants and animals that are usually burnt as 9 fuel in the power production, Industries, as a fuel in automobile and also in domestic cooking. The mador energy in the world is mainly produced by the burning of fossil fuel. when these fuels are burnt they cause the major Joeenhouse gases like Carbon Dioxide (02)



Methane (CH4) which are already present around the Earth? and cause the retention of Infrared rays from the reflected rays from me Earth and Cause the sise in the Easth's temperature. The green House effect is necessary for life on earth but when the level of such. gases is increased there is a Sise of temperature on the Earth. Along with the energy production the use of fossil fuels in the automobile including lars, Buses, Aisplanes etc also emit a huge quantity of greenhouse gases. Beside this the natural gas used in homes for looking food etc. also has the same effect on the Earth. The Intergovernmental Panel on Climate Change (IPCC) has found that emissions from fossil fuels are the dominant Lause of Climate Change in the

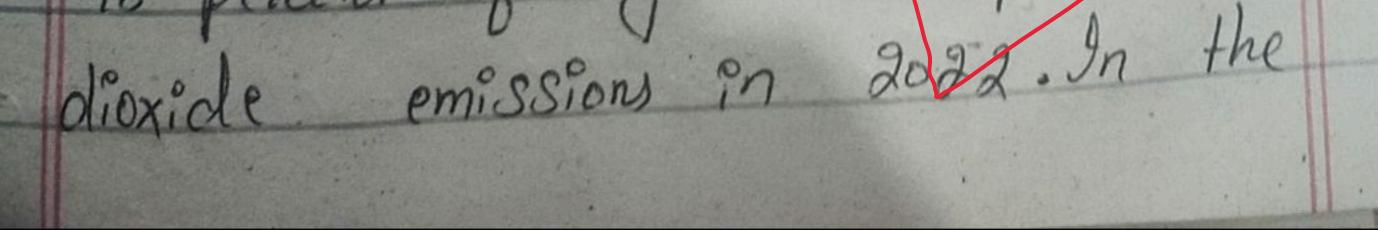


(8) distinct of all the fossil burs. with the fossil fuch. Plong Agricultural Chamicals used in the agriculture for food production the ... of the humans also contributes to the climate Unger The chemicals fortilizers when used in and Soid delease Mitrous Oxide(N20) the which is a greenhouse gas and most important after Garbon Dioxide and Methanic gas. This fas along with the other freenhouse gases Frap the heat they increasing the temperature of the Earth and also damafes the ozone layer around the Easth's in stratosphere which lafer prevents sun's ultraviolet (uv) rays to reach the bauth's surface. Human activities which have caused The climate Change are not limited fossiel fuels to the burning of

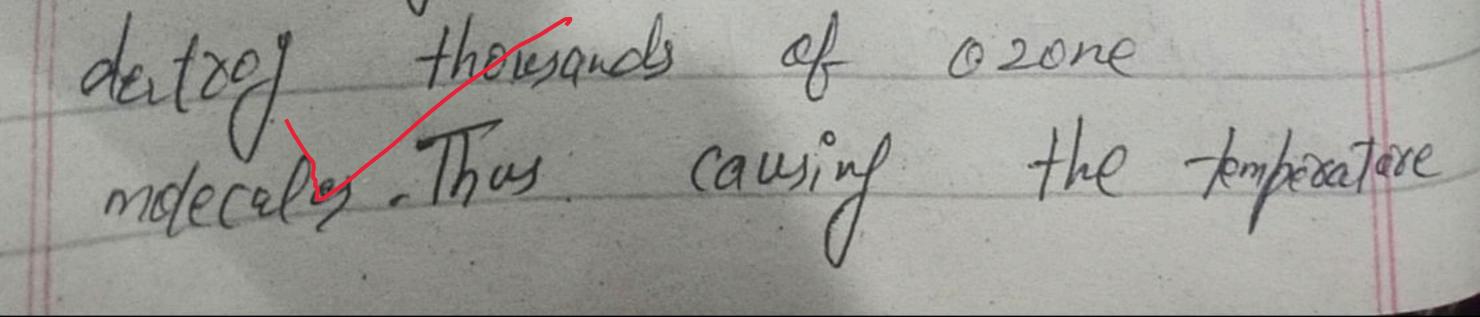


or fortilizers use but also include the motor devastating activity of deforestation. Deforestation is the cutting down of trees and woods for haman uses of building houses or gor clearing suspectives for building factories, industries or other housing socifies for human dwelling. The world has seen a major and swift Jear in deforentation after the Industrial revolution in 1750's. The trees which are a big absorber of Carbon dioxide(co2) and a gas called oxygen(o2) that is most necessary for haman lives, when defaced cause the climate charge They release the Storad Cakbon dioxide into the almosphere Since 2016, an average of 28 million hectages of forest have been cut down every year that's mean that one football field of forest is lost every Second.

(0) The vehicular activities can not be considered as as tess contributor to the climate charge. The gasoline used in the vehicles ; mainly used for transport of passenfear and fleet when burnt causes the give pallation. These vehicle emits (arbon Dioxide (102) and methand (144) gas into the atmosphere, and these two gaves ad a classified as primary green house gases. It is not wrong that greenhouse effect that are necessity for life on earth but excess of these gases toop the outgoing rays of sun and lause extreme temperature on the Earth . Every gallon of gasoline burned coveres about 8887 grams of Coz According to the International Energy Agency (IEA). data cars and vans accounted for 48 percent of global transport Carbon

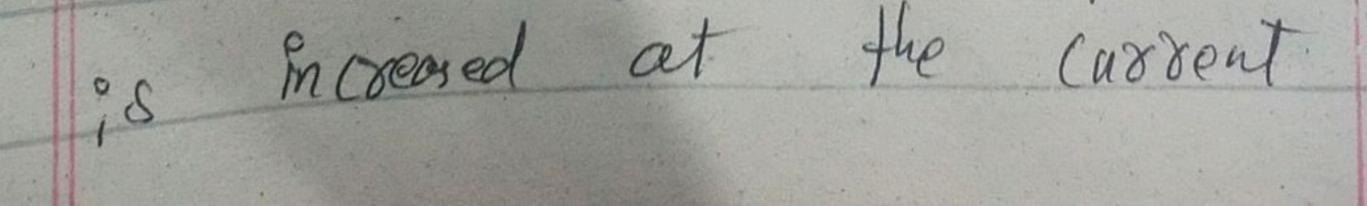


present age the numbers of caros in the whole woold are estimated to be 1.47 billion. The domentic activities of human being can be classified as the lagest contributor of climate change. In day to day activities these is normal usage of natural gay, Eiguéfied Petroleum Ja, (IPG), to Cook food. Air conditioner (AC) and the refrigerators are most excessively used ato, domestic levels. The natural Jas and LPG both produces los and CHy which are the same Joeephouse gails. Ac's' and defoijedation produce Chloro fluro carbons (CFCs); 9 Chemical containing chlorine atoms and deleases releases chlorine atom into atmasphère which ultimately dates ozone. A single chlorine atom can



(12) of the Easth to be incomed. The Climate charge caused from lestoin factors has long term and devalating objects. One the major effects that the climate charge has caused and growing at at a factor Speed is on human health. The pollation in the easth, the extreme weather situation on the easth and this overall Shift has deeply impacted human health The humans are facing many diseases due to climate charge mostly despiratory, heart, and alleggy diseases. In the major cities of the world it is difficult to breather The recent smogs in the major portions of the woold and mostly in the ade gruesome. The South Asia other problems of fatigue

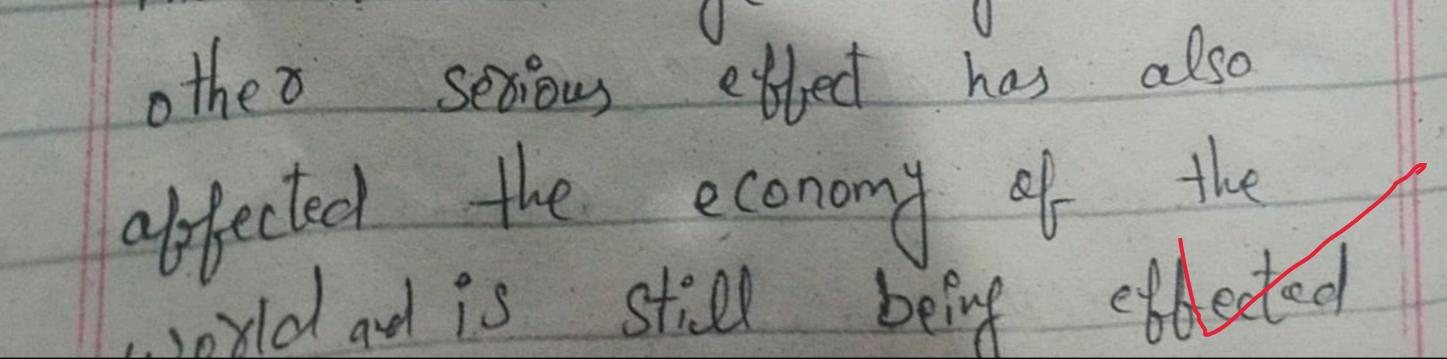
(3) mossle disorder and headaches are normal. If the current severity of · Climate charge is not been controlled it can destroy the human health. Biodiversity is the major area of the earth and out of earth's surface that is necessary for diving species on the Earth. The survival of the living ones is only possible in this circle. It is only possible if the climate on earth is suitable. The climate charge has altered marine terrestrial and freshwater ecosystem around the wood. It has caused the loss of local species, increased diseases and the mortality of living creature. Many mammats have seen the extinction. The coral reefs are going to be increased îf the temperature in number 1



(4) level-Biodiversity is the branty of the easth Half of the world GDP is dependent on nature which would also has grave impact on economy of the Along with the other grave impacts on Easth climate charge has also caused the global warning. The temperature of the earth is increasing very fail which is a cause of great concean. The ice on the polles which reflects about so pexent of the sun's energy is a mador contributor in maintaining the Easth's average temperature now melting, which if not 15 got contralled will result in increased sea levels and the devastating effects. The human other earth. nowhere be possible l'fe on.



(15) The woold has seen a large numbers of natural disasters due the climate charge. These are Often news of bushfiles, floods, Asanamia (Iclones etc. The sea level are increasing, the ice on the poles is melting at a high Speed which ice is considered as the hype source of fresh water of this snow melting continues these will be an average income of about 29 cm in sea levels that seems to be destruction of whole ecosystem. The recent bushfires in the Australia caused a huge loss. The earthquakes are normal and often Seen in the whole woold. The tectonic plates of the easth are mourig. The climate change along with the



18 These are number of countries in the woold that are island countries or are coartal countries. If the Sea level got incorrect on the current pace the most vulnerable such island or coartal. Countries will sink in the water thus Causing a great chaos and destruction with displacements big in rumbers. There will be poverty in maximum parts of the woold These will be scarcity of food or other necessary items of living The human activities are a great cause of climate charge , these are some solutions which can decrease the current threats of Climate Charge Fassil fues as mentioned above are a mador contributors of

D climate charge, we should limit. the seliance of fossil fuch. we should move to the clean energy production and other alternative sources of instead of fossil fuch. These should be some sustainable precautions for use of fossil fuch in the industry and other producing units. The excessive use of fossile fuels should be minimized. The should be clear policies regaling the usafe of fossil fund. The fuels used in Aisphnes and Vet planes should by pudified through technology. before Joinfinto the atmosphere of earth. The rememble sources of Energy like wind Energy, Salar energy, Hydroelectric including tidal energy Should be adopted which are safe and cleany republics



of energy without any wate. The salar energy is the energy abtained from the sun light the wind energy is produced from wind blowing in the are-likewise hydroelectoric energy is produced from water and also tidal energy is produced in the same way. these energy sources are reliable and wate free also compatibly cost than the energy produced low from the burning of fossil facts. The vehicles should be shifted to electric systems and other renewable energy systems to control Carbon emissions in the arr. Trees being the major absorbers of the CO2 and largest producer of oxygen should be implanted. défortation should be quaded. Their the cause Trees are also Their fourts rainfall and of traded and economically are

20(19) eater thus improving healths of the individuals and absorbing the individuals and absorbing The domestic living of humans are a mader factor of the d'imate charge. The excusive use of Acs and refrigerators and also of accord sprays should be quoidel. If nocensage then the Acs and defrijedators gaves should be converted to the erofriendly gases having no CFCS. The wafe of gos for the food cooking should be eliminated and other electric Stoves or solor stoves should be preferred. One must avoid eating meet and should more to the vegetables catego. These Should be campaigns and walks should be held for the of the Climate champe. The sustainable development goals

(20) of the 2015 Set by the world and rate-field by almost all the world countries should be implemented all over the world. The climate change is a grave concern for the world and all the humans are at its susceptibility, if this challenge is not addressed it can lead the whole world to the point of destauction. The United Nations warns that by continuing along this path, our very survival would be at Sisk. The IPCC estimates that in the Current Scenario there will be an avezage increase of 2.7°C in temperature of the Earth by the end of this Centuig The woold's population must collectively contribute to curb the Climate Charge. Keep writing on different themes