Date: Day:_ QZ (1) Inclusional revolution paved the way towards socio-economic progress the world. How do you see the fax reaching environmental consequences of Industrial revolution. Industrial revolution came around mid 1990s, mainly in Britain and then Socio-economic progress was seen all around the world. Industrial revolutions means shifting towards muchines and advanced technology for producing goods, minimizing human efforts and producing large goods in less time.

The main season, of this inclustrial revolution was a oil and gas engines. The world seen huge socio-exonomic
progress but later on environmental calamities, such as Smag in London and other events, made the world realized that environment is being compromised and sustainable practices are needed to reduce the environmental consequence of the Industrial Yerolution Socio-economic progress through Industrial Food supply to increasing population:

As the world population was

increasing, more food was

Date: needed. To meet the oil and food demand, convertional method drashe insufficient. Use I machines and technology in agricultural practices
muell the work easier for Similary production of large amount of degradati food in less time. revoluti. Jobs execution through Industries: A lot of Industries were being installed that created employment Thousands of people preferred jobs in industries instead of agriculture as they were fired of feudal lord system. Industries

provided them better work conditions emiss Carbon and better salaries. Socio-economiz These conditions of the people improved the Significantly Bether health fairlities is not asked mond Acid better health factor temperat is just but Their providiven to mproved. Hence, Industrial Spralle From Lamberg of the 8051 with a lonext part for
the people including bother food,
jobs and bother health facilities.
However, gradually the use 441 1000

oil and gas engines in industries and in transport sector shown drastic environmental colomities. For example, london was worst hit by this inclustrial revolution.

Similary, various other places
Shown Sign of environmental degradation. Although industrial Socioeconanic progress it has
fax scuching environmental consequences Emission of tosil fuels: Burying Emission of fossil fuels in redustries and in vehicles , causes emission of Green Mouse Gases Carbon, sulphur and methane (CMs).
These gases are responsible for the global warning, increasing world temperature. Rain water is slightly acidic but presence of oxides of carbon and sulphur in abundance, rain water is becoming more acidic, resulted acidic ouin is dangerous for buildings, plants, soil, and for aquatic life! In returns, whole food cycle disturbs.

Day:_ Smoy:

Smog is combination of smolle

and fog Main reason of smoy

is particulate matter that

befores part of air due to

industries emissions and vehicles emissions. In smog, various

respiratory problems were seen

in the people. It has deteteriorating

effects on human health specially people with malnutrition. Changing weather patterns:

As world temperature is oring, extreme and changing eather patherns such as long droughts
or execssive rains are causing human losses, destruction
of agriculture sector, and ultimately
destruying economies of the vulnerable
countries. For instance: Pakistan is among top five countries most

vulnerable to climate change

vulnerable to climate change

This climate change has caused

droughts of 1999 and worst

ever toods of 2010 and 1022 in Palestur. Glaciers melting and trophical cyclones:
Glaciers are melting at higher
rales. For example, Pakistan

Date: has over soon glacters which melts to give water and winter snowfall replenishes them However, this balance is being disturbed by climate change, resulting floods.

In addition to glacial melting, trophical cyclones have become more frequent in recent years They can bring winds at speed of 200 km/h, disturbing the weather patterns. Critical Analysis: Although inclusional revolution

Nos come with significant Socio-economic progress, but its
abore mentioned consequences have
for reaching effects. Number of
fatalities due to simple change Numerous health problems are arising due to bad air quality.

People's health is at risk. In addition people's halth, economies are being dustroyed due to

drought and Hoods. Agarigarian

economies are at worst hit.

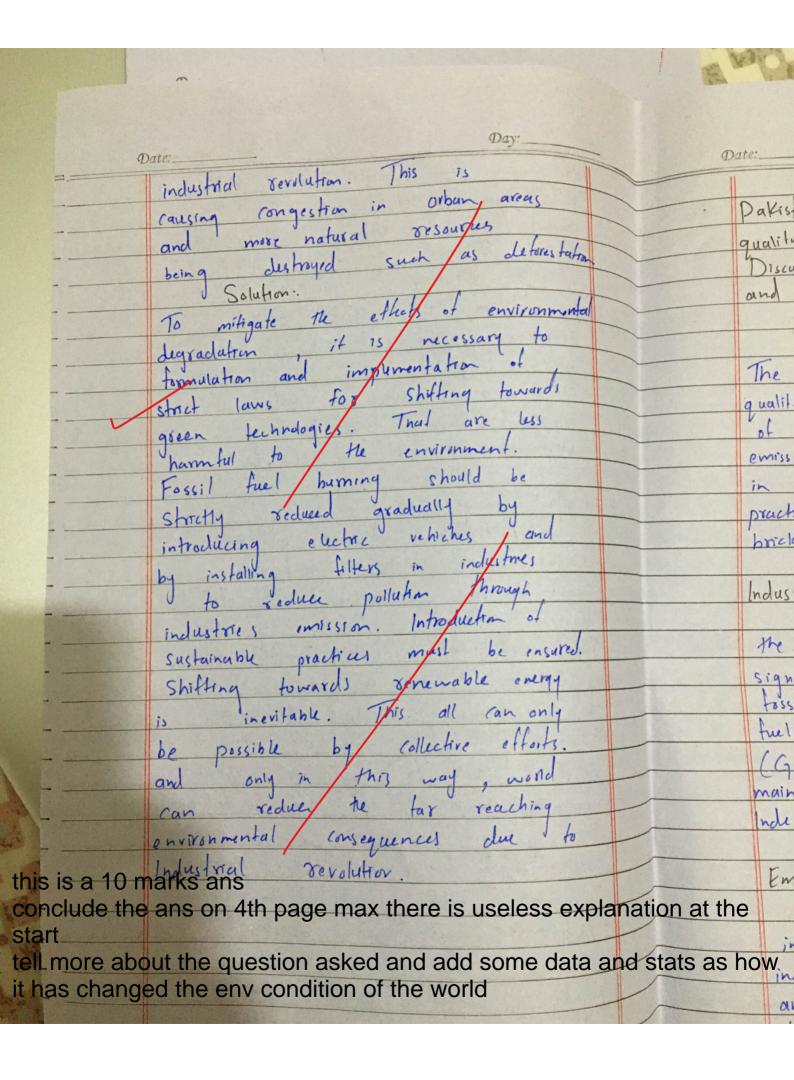
Floods dustroy ag crops

and water scarcity due to

droughts, is hampering the

crops production. Moreover, ropid

urbanization is also linked with



Day:_ (b) Pakistan is witnessing bad air quality index in the major cities.

Discuss the underlying factors

and propose way outs. The underlying factors of had air quality index in the major cities of Pakistan are: Industrial emissions, burning of fossil fuels in vehicles , poor agricultural practices, and emissions from bricks Kiln. Industrial Emissions: In major cities of Pakistan, the number of industries is significant. These industries burn fossil fuels. Burning of fossil fuels releases Green House Gases (GMGs). These GMGs are the main reason of bad air quality Emissions through Vehicles: Number of vehichles is increasing day by day due to palaistan increasing population of palaistan absence of bether local transports. The vailway system of Palaistan is in poor conditions. - MIN

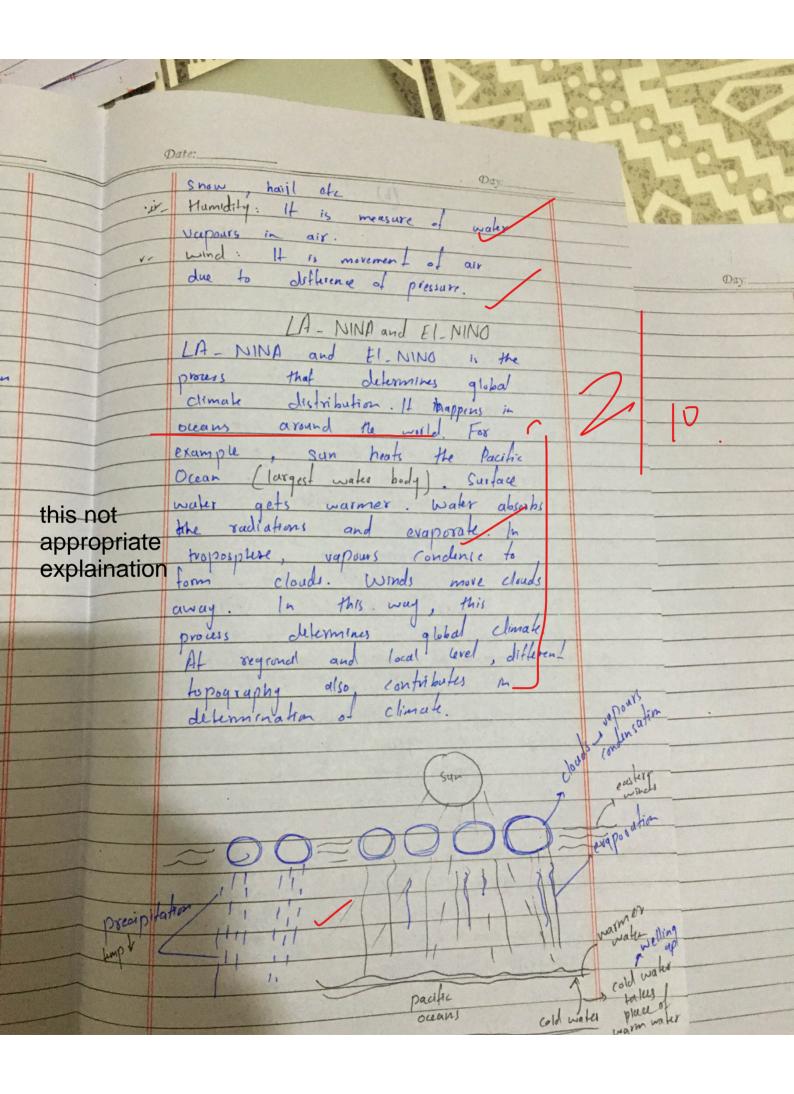
	In addition to railway system,	
	In addition to railway system, buses condition is also not	()
	1 August Called	= =
	increase are of private vehicles.	50
	Gases and contribute to bad	
	air quality Index.	
		-
	Poss Agricultural Practices: Despite Service warnings from the government, farmers	
	Despite Service warrings	
	from the government, tours alleral	
	practices. Burning of crops, cause Significant arr pollution.	
	practices. Busning of crops,	
100	Significant all pollution.	
	Bricks Kiln.	
	lastly, bricks kiln also contribute to air pollution and	
	contribute to all bad air	
	quelity.	
		-
	Way Outs: The solution to	
	Following is the solution to improve the air quality more of	
	improve the are	
	Dalastan:	
	Incorporation of green-technologies in	
- TO B. S.	industries: Government of Pakistan industries: Government of Pakistan subsidies should provide support and subsidies to install gree-technologies to inclustries to install gree-technologies	
	chand provide support and lill over technological	-
	inclustries to install your	
	to inclustries to passion friendly that are environment friendly That are inclustries: Filters	-
	that are environment filters in Industries: Filters 11) Installing filters in Industries:	
	11) Installing the	-

Date: must be install in industries to filler the pollutants before releasing (iii) Relocating Industries: Industries must relocated away from Jurban unters air quality index In this way, will be improved. (i) Use of Euro-V fuel in vehicles: In vehicles high-quality fuel must be used such as Euro that emit less pollulants. (U) Incorporation of olectric vehichles: Governmen introduction of observe buses by 2025 is a good step but fastes implementation of the idea is required. (vi) Promotion of public transport: Government public Should work to promote transport by providing better transport facilities and better public tax on purchase and use of privale vehicles. Awareness in farmers: Farmers should be available costed and warred about poor agriculture practices. (viii) Installation of zig-zag technology in bricks 14h : installation of zig-zag technology in bricks kilm can reduce pollution through bricks killing

dear student ans is very bland there are no flow charts material no data no state not even about the aqi of 2024 snow, hair need improvement ans) is very average 8/20

Strick susveillance of industries

Regular checking of industries wind: 1 due to practices is necessary Awareness Compaigns: Awareness Compaigns LA-NIN through social media platforms dimak Cooperate with government help to bring dis quality index to the bether position. bleans example Q.3 the rad What is Climate? Enlist the weather variables and the LA-NINA and EL NINO process in the context of global climate distribution. topogy Climate. Climate is defined as the term prediction of weather variables of a region or place. It is regul average of weather conditions of 20-30 years (2 or 3 decades). Weather variables: Following is the list Drecip tation of weather variables: Temperature: It is measure of coldness of atmosphere. Precipitation. It is water fulling in any form such as roll



(6) Define Entrophication. Write its process, types, effects and ways Futrophication: It is defined as the rapid arouth of algae and photoplankton due to excessive enrichment of upake bodies, primarily enrichment of nitrogen and phosphorous, and resultant disturbance of ecological bulance.
Process: Excessive enrichment of water bodies: excessive enrichment of water bodies due to agriculture, runoff, sowage water or industrial waste. This Cause excessive presence of nitrogen and phosphorous in the water bodies. Rapid growth of algae and photoplankton: Excessive enrichment cause rapid growth of algae and photoplankton. Depletion of Ouggen: Sun light council
penesule and small-green lives die off. They decompose by backeria Concuming onggen. level of Carbon dioxide increases: As green-lives die off, carbon droxide level increases in the water budges Suffice from of filmries: decrease onygen and increase rouber distinct level cause sufface tim and

Date: Ultimately death of fisheries. Natural Entrophication: It is natural growth of algae and photoplankton in water budies and take decades to take place.

Cultural Entrophication: It is due to human activities such as use of agro- chemicals in hom of fertilizers, industrial waste, arbanization et. These hyman activities cause rapid algal bloom. Effects: (i) Biodiversity loss: Due to death of fisheries, biodiversity loss 12 Death of aquatie organisms disturbs food chain.

iii) Economic loss: Death of fisheries cause huge loss.

iv) Tourism revenues decrease: Entrophication
destroys the aesthetics of water bodies and cause smell around the water bodies. This has bad effect or tourism and cause loss in tourism revenues.

V. Health problems: toxins are

produced through term, that

are bud for health.

Day: Date: Controlling measures: treatment of wask water industries: Industries waste water is the main reasons of algal Hence, treatment is required to remove nutrients such nitrogen and phosphorous before discharging it. agro-climicals: By minimizing use of agro- chemical sil algae and photoplunkton growth con Significantly be reduced Buther regetation along water bodies: Butter regetation along water bodies can absorb exess (iv) treatment of water bodies: This process is expensive, as deaning of each water bodies demands more efforts and forme. diagram is must in this part 8/20 not satisfactory answer are very generic and bland need improvement