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Q) Exuberant Population growth causes fast depletion of natural resources. Explain the statement in light of prevailing situation of Pakistan. Suggest remedies.

fact suppoper chy new dence Grown casious parts of the world. There is a strong contaction between population growth and faster depletion of vesourus, and same is the case in Pakislan's context:

2) Pallistan's population growth: Pakistan is witnessing a termendous surge in its populion. The world ban K states that the population of pakistan has risen from 80 million in 1980's to an enormous 230 million in 2021. This massive surge in the past four decades, indicates that soon the natural-resources of the country might not be able to cater to the needs of the increasingly population.

230

population
years 1980" 2021
The figure shows the increase in population
of Pakistan

3) Depletion of natural resources: The demand of natural resources goes up as the population

of a country rises. The situation is no different in Pallistan. This population proliferation has put an immense pressure on the country's dwindling resources. following are some of the areas which have been hugely impacted by the population growth.

3:1) Water (risis: In the last few decades, Pallistan went from a water abundent country to a water stressed country. One of the primary cause of this, is the massive increase in population. The water demand has surged with the increase in population, however the water resources remained static. The growth in population has now come to the point where the demand exceeds the supply, consquently implying that Pallistan is a water-scarce country, as also indicated by the U.N., which reports that demand of water by 2050, will rise upto 274 million acre feet (MAF), while the the supply would remain at 191 MAF.

will vise upto 274 million acre feet (MAF), while the the supply would remain at 191 MAF.

Highlight the references.

3.2 Sue-gas reserves: The gas reserves are also failing to keep pure with the growing population. Pakis tan has long been dependent on the sue-gas reserves situated in Balochistan to meet the gas demand of the country. However, the increasing population and there by the increas in demand has put a strain on these reserves. The Sui Northern Gas Pipelines Lanted (SNGPL), have also raised concerns on the depleting gas reserves and indicated that the courtry has consumed 66.6% of the fotal gas reserves.

3.3) More demand of electricity: The demand of electricity has also elevated with the increase in population. The problem arises when electricity is produced by buring fossil fuels, which ultimately puts a strain on these natural resources, leading to their scarcity.

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- 3.4) Increased deforestation: The food demand has also visen. The growing population means the demand of food has also increased thowever, to meet this demand more area for agriculture is need, which in turn leads to deforestation and and overgrazing causing soil evosion and further exacer bating the situation. Moreover, since the country already faces sacrety of fossil fuels in some parts, the locals rely heavily on burning food for energy with mattrix carries defined to the content.
- y) Solutions: The deteriorating crisis and potential risk of suffering from the scarcity of natural USEventa language apparate that the sure allieviated by enplacing stern measures neadings.
 - 4.1) Encouraging family planning: Tieve is little to none Knowledge or awavers, among the people of Pakislan, particularly the ones residing in rural areas, about family planning. Family planning is long considered as an issue of Taboo in Pakislan, and this is why it is not commonly discussed. However, given the current surge in

Population growth, there is more need now than ever for the government to bounch awarness campaigns aimed at disseminating family planning awareness and its significant, in an attempt to curb the growth rate.

yelied heavily on fossil fuels to generate energy relied heavily on fossil fuels to generate energy ie electricity. However, the growing energy requirement of the country is depleting the reserves within The government needs to focus on transitioning the energy production onto renewable methods, such as, solar, hydel etc. These we renewable methods can talke an immense load of the natural resources.

9 In vestment in the power sector:

9n order to curb the shortage of energy due to the growing demand, the government should launch schemes where local and foreign investors are invited to invest in the Power sector of the country on the Build operate Transfer] Bot most the government can give incentives such as free land, less taxes etc to attract & more in vestors. This would help the country in enhancing its power sector and limit the dependency on natural resources such as oil and coal etc.



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BOT Model

From the day of investment till the production starts, only interest is paid

From the day Poulon begins
Profit ratio: investor=> 85%:
country -> 15.%

When 50% of the time Passes - Profit vatio investor -> 50% (ountry -> 50%)

when the tenuve is completed - Profit vation investor -> 100%

figure: shows how the BOT model is operated.

44) Auxiveness and strict Policies pertaining to environmental degradation:

Practices such as defovestation and over-

grazing that havm the envivonment, are a by product of shortage of resources and un awareness. The government should initiate awarness campaigns that can educate the land about the consequences of environmental descapeon. In addition, the government should also impose stricter policies prohibiting practices such as detorestation.

4.5) Allieviating water (visis: water (visis, is:

One of very serious issues that Pakistan
fares. The current demand of water, exceeds
that of water reserves. This is a serious issue
and requires a urgent attention of the
government.

4.5.1) Take serious Action againint India's illegal contruction of rivers:

The Indus water Treature was signed back in 1960, menated by the the world Bank it less one treaty allocated exclusive rights to Pallistan using waters from western rivers of Indus system, namely Indus, I helum and Chenab, while India was given rights to use eastern rivers, suffej, Beas and Ravi. The treaty also Prohibits India from constructing any storage dams on the rivers allocated to Pallistan. India, however is violating this treaty by contructing storage facilities

on these vivers, and thereby restricting their water flow in Pakistan Pakistan should raise this issue on all international forums, Particular Particularly UN, and direct acry attention to the reprecussions for rakistan is facing because of Indias violation; primarily in the form of water scarcity.

Y.5.2) Revamping the country's water system:

The government of Pallistan should take immediate measures to address the issue of water scarcity Pakistan needs to work on contructing both large and small scale dams, in order to elevate the large capacity.

Additionally, the capacity the distribution system through canals and improve it in a way that the water wastage is at minimal. Moverover, there is also a aveat need of state-of-the-art water treatment plants, that can remove impurities from water, rendering it safe for use. The government should also take initiatives to educate the local farmers and teach them modern farming techniques that prevent excessive was tage of water. Such steps will pare way for a water abundant Pakistan. concensus of

Kalabagh

Revamping Trrigation

System

water-treatmentPlant in Kanachi

figure: comprehensive Road Map to over come water crisis.

Population, the cities are expanding There are constructions going on the periphery of of cities. The rural areas are rapidly integrating in cities what this does is that it diminshes land for agricultural yeild of the country, ultimately, exacer bating the food crisis. The government should impose strict policies to curb urbanisation. In addition, proper laws should be placed that prohibit contruction on agranan lands.

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5) Conclusion: The exuberant population has generated a barrage of challenges to the country; that it was not prepared for These issues need a urgent attention and could only be left at peril of "Country. These challenges, albeit very daunting, can be allieviated by taking strict actions.

The few solutions provided ove, have the potential to pave way or a prosperous pakistan.

Improve the structure and presentation a bit.

Add more references

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