

Q.3

As an administrator what measures do you suggest to manage the environmental pollution?

Environmental pollution is defined as anything that is harmful for environment. Environmental pollution includes Air pollution, water pollution, and land pollution.

As the environmental degradation is causing adverse effects on humans and on other living organisms of the world, it is dire need to manage environmental pollution. As an administrator, I would suggest following measures to manage the environmental pollution.

(i)

Ban on plastic bags:

As plastic takes decades to decompose and cause immense pollution in environment, it should be banned completely and there must be complete check and balance to ensure that people are following the order.



(ii)  
Creation of green spaces in urban areas:

As population is rapidly growing, their migration to urban centers and need of residential spaces cause deforestation. There should be proper population management by providing better facilities in rural areas. Moreover, more and more green spaces must be created to filter the air.

(iii)  
Shifting industries away from urban centers:

As industries, effluents are major contribution to environmental pollution, they should be shifted away from urban center. To enhance air quality, as Green House Gases Emissions through industries are harmful for the environment.

(iv)  
Installation of Air filters in Industries:

Government must provide subsidies to industries to install air filters. This would help in managing air pollution.



(v)  
 Use of Standard oil in vehicles:  
 Use of fuel of International Standard, such as Eurofuel, must be made obligatory. As it emits less GHGs. There must be fine on vehicles using substandard fuel.

(vi)  
 Improving facilities of local ~~government~~ transport:  
 Conditions of local transport must be improved. So that, people prefer local transport over private vehicles.

(vii)  
 Introduction of Electric buses:  
 Electric buses should be introduced in transport system, to reduce environmental pollution, causing by burning of fossil fuel in the engines of vehicles.

(viii)  
 Empowering of local governments to effectively manage solid waste:  
 local governments must be empowered by providing funds and technology to manage solid waste effectively.



(ii)  
Check and balance on farmers  
to avoid crop burning:

As crop burning leads  
to excessive emission of GHGs,  
there should be check and  
balance on farmers.

In conclusion, as an administrator  
I would suggest above-mentioned  
measures to manage environmental  
pollution effectively.

Q.4

Explain climate change, give its  
adaptation measures with respect to  
Pakistan.

Climate change is the phenomenon  
caused by changing weather  
variables due to rise in  
global temperature. Green House  
Gases (GHGs) are the major  
reasons of global warming.

Green House effect:

Global warming is due  
to Green House effect.

As the Green House Gases (GHGs)  
form a layer in atmosphere,



They do not allow infrared radiations to escape from earth environment. This phenomenon leads to slow rise of temperature of the Earth, causing global warming and ultimately leads to climate change.

Effects of Climate change.

Climate change has following adverse effects:

(i)  
Extreme weather patterns: Due to climate change, extreme weather patterns are observed. Such as untimely rains and absence of rains for prolonged period.

(ii)  
Loss to agriculture sector:

This cause a lot of loss to crop production and livestock. For instance, excessive floods

In 2010 and in 2022 have caused significant economic loss of agriculture sector.

(iii)  
Mass displacement of people:

Such extreme weathers result into mass displacement of people.

as in case of flood, many homes get destroyed. Moreover, in areas of facing extreme draughts,



people leave their houses to  
another place to find  
facilities.

(iv)

Infrastructure damage:

Extreme weathers and other  
phenomenon related to climate  
change cause infrastructure damage.

For instance, the recent fire in  
Los Angeles America has  
damaged a lot of homes,  
displacing people.

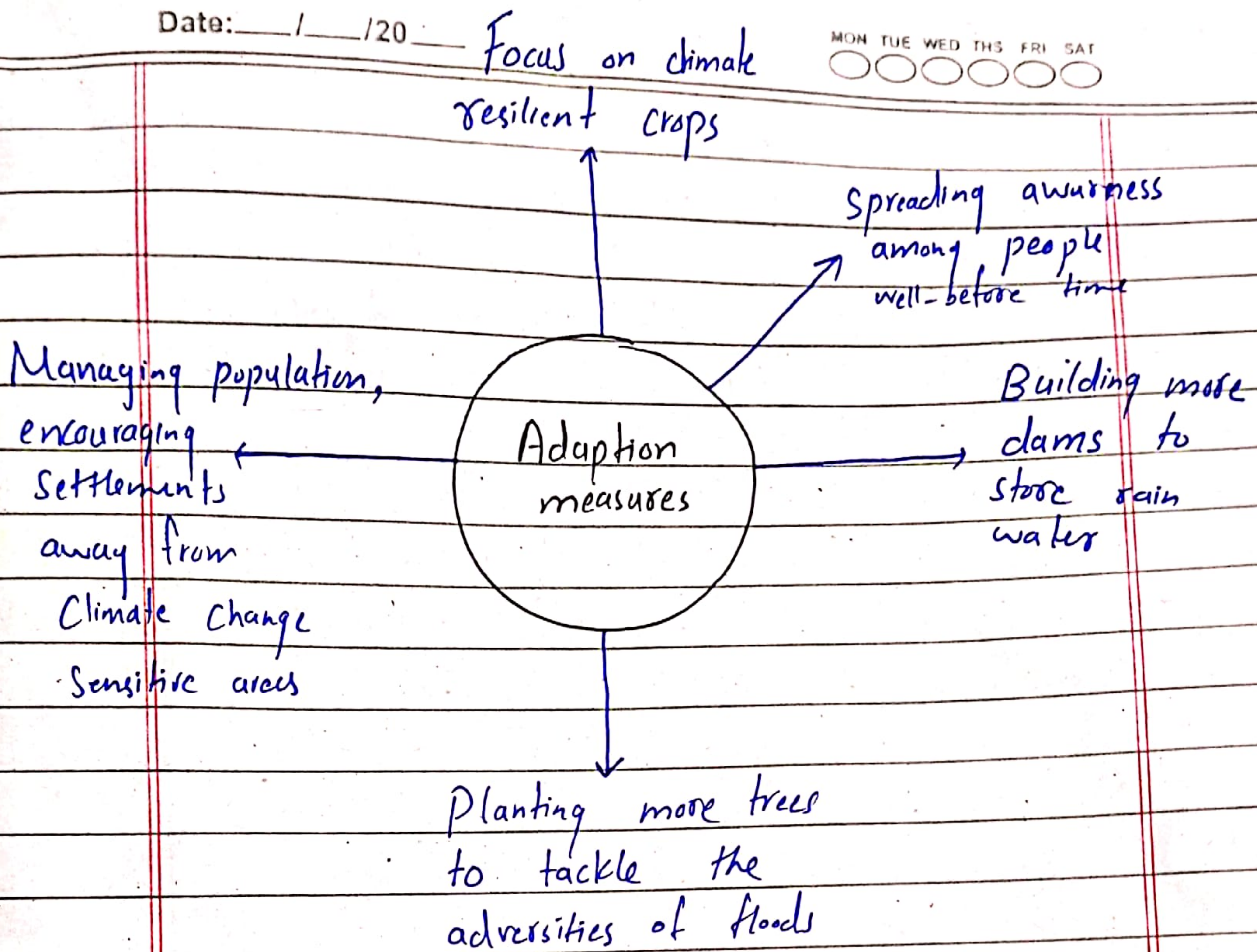
(v)

Bio-diversity loss due to climate  
change.

As many species are adapted  
to particular climate, climate  
change result into migration  
of these species. On not  
finding suitable conditions to  
live, many species have  
become extinct or threatened.

Therefore it is necessary to  
take adaption measure to  
effectively tackle the challenges  
of climate change.





(i)

Focusing on climate resilient crops:  
Cultivation of those crops must be preferred which can withstand the adversities of climate-change.

(ii)

Encouraging settlements away from climate-change sensitive areas:  
For instance, government should encourage settlements where there are less chances of floods etc.



(iii)  
Building dams to store rain water:  
Government must build  
more small and large dams  
to store rain water.

(iv)  
Planting more trees:  
Planting more trees  
would reduce the flow of  
floods, reducing calamities  
due to floods.

(v)  
Warning to people living close  
to water bodies.

warning well - before time  
to people living close to water  
bodies would give time to  
those people to leave  
the region and it will  
prevent human lives losses

In conclusion, Pakistan is  
experiencing worst climate change  
effects despite its less ( $\approx 1\%$ )  
GHGs emission. So it must  
take adaption measures to  
tackle the challenge of  
climate - change.