

Discuss the possible negative effects that Pakistan may face due to Global warming and climate change? What steps may be helpful to control climate change?

## Negative Effects of Global Warming & Climate Change

### Environmental Effects:-

Increased breakdown of ice cover: Due to global warming, there is increased melting of ice glaciers across the globe. As per International conference on Ice and snow African glaciers are shrunked by 82%, China glaciers by 25%, Russia glaciers by 50%. As per NASA, Himalayan glaciers are among the most fastest melting glaciers in the world. Shigal, Bhatura and Siachin glaciers are facing severe ice melting.

Due to increased melting of ice cover,



there is 8 inches level rise in the sea level.

Increased intensity and frequency of disasters

Due to climate change, there is increased intensity of flooding. As per NDMA there is 1500 deaths in the floods of 2022 and 45 deaths in floods of Karachi 2020.

Due to intense flooding there is increased damage to infrastructure.

## 2. Social effects:-

Due to increased disasters, there is great effect on poverty, inflation, employment etc.

There is increased threat to the human life due to increased heatwaves due to global warming. Almost 1500

have died in Karachi due to heatwaves in the last 4 years. People living

on coastal areas are effected mostly due to increased in sea level. Almost

50% population is living on coastal areas globally. Then, there is the

problem of environmental Refugee

problem who need shelter in



case of disaster near coastal areas

### 3. Economic Effects:

Due to disasters like flooding as a result of global warming, it cause a lot of economic damage as well

As per NDMA, almost 5000km of roads ~~are~~ and 500 bridges are damaged in 2022 floods. and financial loss of \$16bn in 2022 floods.

Due to flooding and excessive heat waves, agricultural system of Pakistan is damaged. In 2022 due to heatwaves, almost 30-40% decrease in mangoe production which then lead to economic damage, food insecurity, poverty

### 4. Political effects:

water is used on shared basis by all the countries. As Pakistan and India are sharing waters of Indus river through Indus water Treaty.

As ice is melting due to global warming, there will be shortage of water and conflicts will arise



# Steps to control climate change

## 1. Governance policies:

Good governance policies should be implemented

Transformation of energy to renewable sources

should be done. It is being done in

Pakistan but should be accelerated. It

results in decrease production of green house

gases. Solar parks are present in Bahawalpur

Wind energy is installed in Sindh & Balochistan

Increased forest cover should be planted. Plants are considered the

carbon dioxide ( $\text{CO}_2$ ) sinks, so they decrease the concentration of gases in atmosphere.

10 billion Tusumani project 2016-2018, clean

green energy projects, 30 Million plants

projects in Sindh. These are the plantation projects in Pakistan for better climate

Government should impose taxes on private transport especially old models or hybrid

cars. Electric cars should be promoted.

Efficient public transport system should

be promoted. Cycling should be promoted



## 2. Technological policies:

As natural disasters are increasing day by day, so resilient infrastructure should be constructed which can bear the worst disaster. High quality construction material and innovated technology should be used.

Construction of sustainable cities should be promoted. In which there is maximum plantation but it is costly for our economical conditions.

## 3. Institutional policies:

Institutions should be strengthened enough to implement the policies. NDMA should be given enough budget to do early preparedness before any predicted disaster. Full work force should be available to the institutions.

MET department should be highly technical to forecast all the disasters beforehand.

## 4. Public awareness policies:

Education about global warming



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should be given in schools, through local government representatives, through media and religious cleric so that people should be educated enough about climate change and its effects.

### Q. Global Climate responsibility:

International cooperation between the developed and developing countries as developed countries should be responsible for major emissions e.g. **China - 36%, US - 15%,**

**IND - 8.9%** and Pakistan just 0.7%.

but developing countries are bearing the brunt of climate change. So developed countries should provide loss and damages funds to Pakistan and climate justice would prevail.

All the countries should commit to international climate protocols and bind to them like KYOTO protocol, Paris climate agreement.