

## Introduction:-

"If you really think that the environment is less than the economy, try holding your breath while you count your money". Pakistan is grappling with the profound factors of climate change due to greenhouse gas emission, global warming, Deforestation, Rapid urbanization, industrial growth and Agricultural practices leading to consequences like Rising temperatures, melting glaciers, frequent flooding, Water Scarcity, and mainly Economic loss. The effects of global climate change in Pakistan are evident and it's never too late to start working on this issue.

# Impacts and Causes of Climate Change:-

## Causes:

- ① Green house Gas Emission
  - (i) Green house gas emissions involves  $\text{CO}_2$  emission
  - (ii) Burning of fossil fuels, oils and natural gas.
  - (iii) Green house effect due to ozone depletion.
- ② Global warming
  - (i) Due to increasing concentrations of green house gases.
- ③ Deforestation:
  - (i) For urban development
  - (ii) wood fuel reduced forest cover in Pakistan  
(forest depletion rate in Pakistan annually is 1.66%.
- ④ Rapid Urbanization:-
  - (i) Rise in vehicle use
  - (ii) Uncontrolled urbanization
  - (iii) increased population.
- ⑤ Industrial Growth:-
  - (i) Energy demand
  - (ii) Expansion in industries especially in textiles and energy production.
- ⑥ Agricultural Practices:-
  - (i) Rice paddies and livestock farming contributes to methane emission.

## Impacts of Climate Change in Pakistan:

### (1) Rising temperature

(i) Heat waves

(ii) Sand storms

### 2) Melting Glaciers:-

(i) River Flow

(ii) Floods

### (3) Unpredictable Rainfalls

### (3) Water Scarcity:-

(i) Reduced river flows

### (4) Agricultural Disruptions:-

(i) Crop patterns

(ii) Livestock and fisheries are becoming vulnerable

(iii) Wheat and rice threatening

### 5) Health Issues:-

(i) Heatstroke

(ii) Waterborne diseases

(iii) Malnutrition

### 6) Economic Losses:-

(i) Infrastructure damage

(ii) Disrupted livelihood

(iii) Relief efforts.