

# Climate Change: its causes and consequences

## Outline

### 1. Introduction

#### a. Hook

#### b. Background

#### c. Thesis statement

The main causes behind climate change are deforestation, green houses gas emission, urbanization, global warming, pollution, leading to natural disasters, glaciers melting, food crises, wildlife extinction and health hazards.

### 2. Causes and Consequences behind climate change

#### 1. Deforestation

- Causes of Deforestation
- Role of Forests in Climate Regulation
- Long-term Environmental Consequence

#### 2. Green houses gas emission

- Major Greenhouse Gases
- Human Activities Responsible
- Industrial and Agricultural Sources
- Contribution to Climate Change

#### 3. Urbanization

- Rapid Growth of Cities
- Increased Energy Consumption
- Urban Heat Island Effect
- Environmental Degradation

#### 4. Global warming

- Rising Global Temperatures

- Role of Greenhouse Effect
- Evidence of Global Warming
- Threats to Ecosystems

## **5. Pollution**

- Air, Water, and Soil Pollution
- Industrial and Vehicular Pollution
- Toxic Effects on Environment

## **6. Leading to natural disasters**

- Increase in Extreme Weather Events
- Floods, Droughts, and Heatwaves
- Damage to Human Settlements

## **7. Glaciers melting**

- Rising Global Temperatures
- Sea Level Rise
- Threat to Coastal Areas
- Impact on Freshwater Resources

## **8. Food crises**

- Reduced Crop Productivity
- Water Scarcity
- Rising Food Prices
- Threat to Food Security

## **9. Wildlife extinction**

- Habitat Loss
- Disruption of Ecosystems
- Species Migration and Death
- Loss of Biodiversity

## **10. Health hazards**

- Spread of Climate-Sensitive Diseases
- Heat-Related Illnesses
- Air Pollution and Respiratory Problems
- Public Health Challenges

## **The Essay**

“Climate change is no longer some far-off problem; it is happening here and it is happening now”. These are the words of Dr. Katharine Hayhoe, climate scientist. This statement aptly captures the gravity of the climate crisis confronting the world today. In the past climate changes used to take a long time, but now the temperature is rising at a much faster rate. The Earth’s average temperature has risen at an alarming rate due to human activities. This sudden warming has disrupted natural systems and caused extreme weather events across the globe. Climate change affects not only the environment but also human health, food security and economic stability making it the most critical issues of the 21<sup>st</sup> century. Developed nations are dealing with it successfully, whereas developing nations are still struggling. Unfortunately, Pakistan is one of them. The main causes behind climate change are deforestation, greenhouse gas emission, urbanization, global warming, pollution, leading to natural disasters, glaciers melting, food crises, wildlife extinction and health hazards. These problems of climate change have not descended from heaven, it is man made and only strong will and determination is needed to address this issue.