

# **Global Warming and Our Preparation to counter it**

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Here, you will Essay on the Topic “*Global Warming and Our Preparation to counter it*” given by Mureed Hussain Jasra, CSP in his book named **WINNING ESSAYS FOR CSS, PMS & OTHER COMPETITIVE EXAMS**

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### **I. INTRODUCTION**

- A. Rise in temperature and sea level; statistics**
- B. Earth: The only Planet to sustain life**
- C. What is global warming**

### **II. CAUSES OF GLOBAL WARMING**

#### **A. Inordinate deforestation**

- 1. Forest as carbon skin**



**2. ii. Conversion of forests into residential areas**

**B. Excessive burning of fossil fuels**

- 1. Major contributor to CO<sub>2</sub>**
- 2. In addition of CO<sub>2</sub>, emission of SO<sub>2</sub>**
- 3. Australia is the largest producer**

**C. Rising Industrialization**

- a) Release of fluorinated gases**
- 2. Disturbs the chemical composition of the atmosphere**
- 3. Heavy machinery increases the temperature**

**D. Application of Nitrogen fertilizers**

- 1. Green revolution**
- 2. Increases yield but pollutes soil**

**E. Emission of Chlorofluorocarbons**

- 1. Analysis of Joe Faiman proved CFC's major cause**
- 2. Inorganic chlorine results in photolytic decomposition**

**F. Agriculture activates**

- 1. Methane: products of livestock, digestion, paddy rice, farming and manure**
- 2. Bacteria breaks organic matters**



## **G. Aerosols**

- 1. Absorb solar and ultraviolet radiation**
- 2. Alter microphysical and chemical properties of clouds**
- 3. Mixture of organic droplets and soot**
- 4. America is the biggest producer**

## **H. Ozone depletion**

- 1. Ozone absorbs harmful ultraviolet radiations**
- 2. Chlorine-containing gases destroy the Ozone**

## **I. Volcanic eruption**

- 1. Injects substantial amount of sulphate**

## **J. Cement manufacturing**

# **III. CONSEQUENCES OF GLOBAL WARMING**

## **A. Melting of polar ice, glaciers and ice sheets**

- 1. 1/6 of the world population lives in melting zones**
- 2. Destruction of Greenland Ice sheets**
- 3. Reduction in Arctic Sea Ice**
- 4. Okjokull officially lost glacier status**
- 5. Horrific picture of Glacier National Park**



## **B. Ocean acidification**

- 1. Excessive CO<sub>2</sub> leads to oceanic acidification**
- 2. Change in ocean circulation**
- 3. Pernicious effects on marine life**

## **C. Rising Sea level**

- 1. Thermal expansion and melting of glaciers**
- 2. Increased temperature stratification**

## **D. Serve hurricanes**

- 1. Become intense as the planet warms**
  - a) Intensity depends on temperature difference**
  - b) Hot oceans fuel hurricanes**

## **E. Frequent Natural disasters**

- 1. Changing precipitation pattern and prolonged heat**
- 2. Forecast of decades-long mega-droughts**
- 3. Overwhelm physical infrastructure and human communities**

## **F. Detrimental impacts on marine life**

- 1. CO<sub>2</sub> in seawater declines PH**
- 2. Acidity eats calcium carbonate shells**

## **G. Encroachment of coastal areas**



**1. Global sea level has risen 8 inches**

**2. Lead to inundation**

## **H. Ozone depletion**

**1. Chlorine deteriorates Ozone molecules**

**2. Passage of UV rays**

## **I. Increase the range of diseases**

**1. Excessive heat cause stress**

**2. Decrease immunity of the human body**

**3. Chronic conditions like Asthma**

## **J. Decline in agriculture production**

**1. Loss of food security**

**2. Creates havoc in international food markets**

**3. Political instability and civil unrest**

# **IV. PAKISTAN'S EFFORTS TO COUNTER GLOBAL WARMING**

**A. Peace Agreement Ratification**

**B. National climate change policy**

**C. Green Pakistan**

**D. Introduction of new varieties of seeds by PARC**



**E. Forest preservation**

**V. GLOBAL INITIATIVE TO COUNTER GLOBAL WARMING**

**A. Global warming of 1.5°C**

**B. United Nations Framework Convention on Climate Change (UNFCCC)**

**C. Kyoto Protocol**

**D. Muslim Seven-year Action Plan on Climate Change**

**E. Major Economies' Forum on Energy and Climate**

**F. Paris Agreement**

**G. Climate Summit (2019)**

**VI. MEASURES TO REDUCE GLOBAL WARMING**

**A. Use of Renewable Energy**

**1. Agreement on the wind and solar power**



**2. Biofuel from organic waste**

**3. Meticulous policies**

**4. Mass awareness through Non-Governmental Org**

**B. Energy Conservation**

**1. Use hydrogen to feed zero-emission fuels cell**

**2. Manufacturing better batteries**

**3. Engineering a smarter electric grid**

**C. Genetically engineered crops**

**1. Drought-resistant crops**

**2. Saline-resistant crops**

**D. Forest planning**

**1. Discover new forest management and adaptive planning options**

**2. Ensure availability of trained forest workers**

**3. Reforestation**

**4. Silver maple sapling**

**E. Technology Transfer**

**1. Nuclear-Fusion - energy power plant**

**2. Electric Cars**

**3. Introduction of carbon engineering**



## **F. Cyclone shelters**

# **VII. Conclusion**

### **About Author**

Mr Mureed Hussain Jasra boasts of a diverse professional background. Being a Civil Servant, he has served in important positions in the Federal Secretariat and autonomous bodies dealing with important policy-level matters. Prior to joining Civil Service of Pakistan, he served as a lecturer of English in the Federal Government of Pakistan and won accolades in academic circles and intelligentsia for his professional commitment and devotion to work.

Mureed Hussain Jasra's current fame among the CSS aspirants owes to his stellar success as being the most towering CSS coaching teacher and mentor. Under his careful mentorship, many young men and women have won distinctions in the CSS/PMS competitive examinations are now serving the nation in different capacities. He regards teaching as the singular driving passion of his life and has founded Civil Services Preparatory School for the young aspirants.

Mr. Jasra is an avid reader of books and loves debate on history, culture, literature and governance. He is master in English Literature.