

- Assignment # 01 :-

* Climate Change :- Causes & Consequences.

Outline :-

1st Introduction :-

(a) 1- Hook

(b) 1- Background

(c) 1- Thesis Statement:- Climate change happens because of the rapid industrialization, Energy use, Agricultural practices, Deforestation, Consumer practices, livestock, transport, Resource extraction & pollution. Moreover, the consequences that occur because of the climate change are the rising temperatures, rising sea levels, Unpredictable weather patterns, Increase in extreme weather events, land degradation & loss of wildlife and biodiversity, loss.

2.- Causes behind Climate Change :-

• Rapid Industrialization :-

→ (a) - Associated with increased pollution.

(b) - Natural resource depletion.

(c) - Ecological damage due to intensified production.

• Energy Use :-

→ (a) - The resulting greenhouse effect causes extreme weather events.

(b) - floods

(c) - Droughts.

(d) - Wildfires.

• Agricultural Practices :-

→ (a) - livestock production

(b) - Fertilizer Usage.

(c) 1- Deforestation & Land Use Change

(d) 1- Soil Management & Tillage

(e) 1- Rice Cultivation

(f) 1- Agricultural Waste

• Deforestation :-

→ ~~Carbon Footprint~~

~~Loss of Carbon Sinks~~

~~Disruption of Hydrological Cycle~~

(a) 1- Agriculture & Livestock

(b) 1- Infrastructure & Urbanization

(c) 1- Logging

(d) 1- Forest fires

• Consumer Practices :-

→ (a) 1- Overconsumption and Waste

(b) 1- Food Choices

(c) - Energy use & Transportation

(d) - Electronics & Plastic

• Livestock :-

→ (a) - Enteric Fermentation

(b) - Manure Management

(c) - Land Use Change

(d) - Feed Production

• Transport :-

→ (a) - Emissions Source

(b) - Fossil fuel Dependence

(c) - Road Transport Dominance

(d) - Shipping & Aviation

(e) - Manufacturing Impact

• Resource Extraction :-

- (a) :- Fossil fuel Emissions
- (b) :- Mineral & Metal Processing
- (c) :- Land - Use Change & Deforestation.
- (d) :- Feedback loops
- (e) :- Industrial & Urban Expansion

• Pollution :-

- (a) :- Greenhouse Gasses (GHGs)
- (b) :- Black Carbon (Soot)
- (c) :- Ground-Level Ozone
- (d) :- Aerosols
- (e) :- Fossil fuel Combustion
- (f) :- Agriculture & Livestock.

(g) 1- Deforestation & land use

(h) 1- Waste management

2:- Consequences of Climate Change :-

• Rising Temperatures :-

→ (a) 1- The Enhanced Greenhouse Effect.

(b) 1- Human Activities

(c) 1- Faster Warming Rate.

(d) 1- Positive Feedback loops.

• Rising Sea levels :-

→ (a) 1- Thermal Expansions

(b) 1- Melting land Ice

(c) 1- Rate of Acceleration



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• Unpredictable Weather Patterns:-

- (a) - Extreme Heatwaves causing safety risks
- (b) - Intense Storms & Flooding / natural Disasters
- (c) - Persistent Droughts causing - disruption
- (d) - Displacement & Migration
- (e) - Ecosystem & Biodiversity Impact.

• Increase in Extreme Weather Events:-

- (a) - Human Health Hazards
- (b) - Agricultural & Food Insecurity.
- (c) - Infrastructure & Economic Damage
- (d) - Environmental Degradation.

• Land Degradation :-

- (a) - Massive Carbon Emissions
- (b) - Reduced Carbon Sequestration
- (c) - Greenhouse Gas (GHG) Acceleration
- (d) - Deforestation Impacts
- (e) - Altered Energy Balance.

• Loss of Wild Life :-

- (a) :- Weakened Carbon Sequestration.
- (b) :- Destruction of Ecosystem Services.
- (c) :- Increased Wild life & Greenhouse Gas Emissions.
- (d) :- Breakdown of Food Webs.

• Biodiversity Loss :-

- (a) :- Carbon Sequestration Breakdown.
- (b) :- Reduced Resilience.
- (c) :- Positive Feed-back Loop.

3 :- Recommendations :-

4 :- Conclusion :-

- (a) :- Restate Thesis
- (b) :- Summary of Essay.
- (c) :- Future Thought.



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* Climate Change : Causes & Consequences :-

1. Introduction :-

→ The changes in climate change causes rapid industrialization, Energy use, Agricultural practices, Deforestation, Consumer practices, livestock issues, transport contributing negatively in climate changes, resource extraction & also pollution. Moreover, the consequences which are faced because of the climate change are rising temperatures, rising sea levels, unpredictable weather patterns, Increase in extreme weather events, land degradation & loss of wild life, and also a loss of biodiversity.