

Date: _____

It is a fine attempt Day: _____

Keep practicing on different themes/topics

GLOBAL WARMING

Causes & Consequences

Outline:

1

Introduction.

- Hook
- General Information
- Thesis Statement.

2

Causes of Global Warming.

i Inordinate Deforestation.

A Increased demands for food, wood and residence

B Key factor behind global warming

ii Rapid Industrialization.

A Increased ^{emission of} Green house gases

B Disrupts the chemical composition

C Multiplies the global warming

iii Burning of Fossil Fuels:

A Responsible for 75% of green gas emissions.

B Release CO₂, NO₂, SO₂.

Date: _____

Day: _____

ix Ozone Depletion

A Increased use of CFCs emitting gadgets among humans.

B Rising earth temperature

C Affecting Humans health

x Population Explosion

A As population grows, the demand for food and houses also increases.

B Rise in pollution

C Cutting of trees.

3 Consequences of Global Warming

i Melting of Glaciers

ii Increasing sea-level

iii Repeated Hurricanes and Floods

iv Extreme drought

v Affecting the human's health.

Effects on

4 Steps taken by International Community to reduce global Warming.

A Creation of IPCC in 1988
Rio Earth Summit 1992

Date: _____

Day: _____

B Kyoto Protocol 1997

C Paris Agreement 2015

D Start of COP.

5 Measures to Reduce Global Warming.

i Use of renewable energy sources.

ii Genetically engineered crops.

iii Reduce the deforestation

iv Technology Transfer

v Control the population explosion.

6 Conclusion.

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Essay

"Global warming is no longer a philosophical threat, no longer a future threat, no longer a threat at all. It's our reality."

Global warming is the rapid increase in Earth's average surface temperature over the past century due to the release of green house gases. Global warming has become a

Date: _____

Day: _____

Serious concern for the whole world. As the temperature is increasing gradually, it is leaving the long-lasting impacts on the environment and the lives of people. Recently NASA predicts that the average surface temperature has risen about 1.62°F since the last 14th century while the resultant sea-level has risen close to 8 inches. The world is well aware of the horrific consequences of the increased earth temperature. Therefore some notable initiatives have been taken by the world community to curb the menace of global warming. Some major initiatives include the creation of IPCC in 1988, Rio Earth Summit 1992, Kyoto protocol

Date: _____

Day: _____

1997, Paris agreement 2015
and the start of
COP that holds the conferences
annually to discuss about
climate change. As far
the causes of global
warming are concerned, these
causes are not descended
from heavens. Instead they
are man-made. Some major
causes behind the global
warming are inordinate
deforestation, rapid industrialization,
ozone depletion, burning of
fossil fuels and population
explosions. These causes have
severe effects on the environment
including melting of glaciers, increasing
the sea-level, repeated hurricanes,
floods, drought and effects on
human health and some
serious efforts such as
Aforestation, use of renewable
energy sources, improve transportation,

Date: _____

Day: _____

and use of genetically engineered crops, are needed as reduction strategies to reduce the global warming.

"We are living on the planet as if we have another one to go". (Theory Swearingen)

This ^{quote} ~~quotation~~ truly depicts that the human activities are responsible for global warming. To begin with,

inordinate deforestation is one of the major cause

of global warming. The forests are the carbon sinks as they absorb the carbon dioxide from the atmosphere and release

O₂. But now, the excessive use of wood ^{has} increased its demand that compel

the people to cut down the trees. Further clearing of trees and

Date: _____

Day: _____

green land for farming
~~have~~ has decreased oxygen
level in the environment.

Deforestation is causing global
warming more than any
other human activity. According
to **WWF**; deforestation is the
cause of around 10% global
warming and it is the
second source of carbon
dioxide after the burning of
fossil fuels leading to increased
temperature all around the
globe.

Adding fuel to the
fire, a vast number of
industries ~~are~~ established after
the industrial revolution are
producing fluorinated gases at
a massive level. These gases
are disrupting the chemical
composition of atmosphere. Industries
are responsible of green house
gas emissions. **1.5** per **1.5°C**,

Date: _____

Day: _____

75% of world's green gas emissions are due to industrialization and also the industries are responsible for 40% of carbon dioxide emissions. They are not only responsible for carbon dioxide, but also contribute to NO_2 and sulphur dioxide emissions. All these gases collectively contribute towards increased surface temperature. Putting it briefly, the industrial revolution and the resulted increased number of industries have multiplied the production of green house gases.

Another striking factor contributing to the global warming is the ozone depletion. Ozone layer absorbs the U.V radiations and prevents them to reach the Earth maintaining the earth's temperature. But now the men has invented

Date: _____

Day: _____

many things to facilitate life and among these gadgets using CFCs are the main devices. These CFCs are responsible for destroying the ozone molecule as one molecule of CFCs can destroy million of ozone molecules. As a result of this depletion the U.V rays ~~are~~ directly reaches to the earth and resultantly the temperature of surface increases. In addition to it, ozone depletion is also a reason behind many skin diseases.

Fourthly, burning of fossil fuels also causes global warming. When fossil fuels are burned, they release large amount of Carbon dioxide and other green house gases into the atmosphere such as SO_2 . Burning of fossil fuels is the

Date: _____

Day: _____

major cause behind the increased temperature of earth's surface. The world is warming faster than expected. A major portion of electricity is generated by burning fossil fuels such as coal, oil or gas which produces nitrous oxide ~~that~~ ~~the~~ along with carbon dioxide that blanket the earth and trap the sun's heat thus contributing to the warming of globe.

Furthermore, population explosion is another reason.

Because as the population of the world grows, so does the demand for food, residence and place.

To fulfill the needs of men, trees are cut down that leads to deforestation.

As mentioned above, the deforestation also causes global

Date: _____

Day: _____

Warming other than this the motor vehicles used by men also emit some green house gases whose ~~amount~~ concentration increases in the atmosphere.

The use of fossil fuels also increases and all these factors are contributing changing the chemical composition of the atmosphere.

Putting it concisely, the human activities are responsible for the emission of green house gases and raising the earth's temperature.

These activities are leaving clearly impacts on the earth clearly some of which are mentioned below.

The major disaster that world is facing is the melting of glaciers and polar ice caps. According to IPCC, about one-sixth of world's

Date: _____

Day: _____

Population lives in the regions which shall face the direct impacts of the melting of ice. The melting of glaciers also leads to the increase in the sea-level. A report says that this melting of ice will be responsible for 5-6 inches rise of sea-level.

Global warming is effecting the glaciers to an extent that the Glacier National Park in Montana had 150 glaciers in 1800s but now it is left with only 26 glaciers. So this is how the global warming is affecting the environment.

Another horrific outcome of climate change is rise of sea-level melting of glaciers and extreme high temperatures are contributing to the increased sea-level. According to

Date: _____

Day: _____

APCC, if the greenhouse gas emissions remains unchecked, the sea level will rise to 3m till 2100. This will have a disastrous effect on the environment.

As it will inundate the agricultural areas and residential areas near sea-shores.

Another consequence of climate change is that the hurricanes and typhoons will become more intense as the planet warms. Due to climate change the temperature when increases, the hotter oceans evaporate more moisture, which acts as an engine that fuels these storms. Scientists claim that hurricanes will become more intense and frequent in the coming years due to global warming. As

Date: _____

Day: _____

the hurricanes get their energy from temperature difference. Recent tornadoes and hurricanes in the U.S coastal areas and in some Asian countries are the recent examples.

The recurring droughts are another outcome of global warming. Changing precipitation patterns and prolonged heat durations result in drought. It leads to the food shortage and forest fires. The one of the major cause of forest fire is ~~the~~ extreme high temperatures leading the lives and properties in danger. The forest fire also effects the economy because ~~the~~ it takes great effort and amount of money to control and curb

Date: _____

Day: _____

the forest fire The studies
predicted that there are
85% chances of drought
lasting at least 35 years
by 2100. Moreover heatwaves,
blizzards and rainstorm
are some other outcomes
of global warming.
Lastly, the global
warming leaves severe impacts
on human health. The
heatwaves can effect the
blood pressure and causes
heart diseases. Even sometimes,
it causes death. Moreover
the chlorine gas released
by refrigerators and air
conditioners deteriorates the
ozone layer. So the harmful
ultraviolet radiations directly
reaches to the earth. These
radiations raises the temperature
of the planet and
effects the human health

Date: _____

Day: _____

as well, ultraviolet exposure causes eye diseases and skin cancer. To conclude, the global warming effects the human health. American Medical Association has reported an increase in diseases like Malaria and dengue fever. The dry soil and wind can also cause virus causing diseases.

To mitigate the outcomes of global warming Pakistan and the world community as well, are taking up measures. Some of which are as follows.

In reduction strategies, the first step taken was the creation of IPCC in 1988. IPCC issues reports annually about the causes, and impacts of global warming. It

Date: ___/___/20___

MON TUE WED THU FRI SAT
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issued report in 2018 suggesting limiting global warming to 1.5 degrees and sea rise to 10cm lower by 2020. These reports issued by IPCC help to understand this menace and the necessary steps that should be taken to tackle it. Another important step was the Rio Earth Summit in 1992, that resulted in multiple agreements about the climate change. The renowned Kyoto Protocol is another milestone in the journey of combating global warming. It set binding targets for some countries and European Union to reduce the greenhouse gases emissions by an average of 5%. Another famous treaty, the Paris Agreement was signed in 2016. It also urges ~~the~~ to take some

Date: ___/___/20___

MON TUE WED THS FRI SAT
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measures to reduce the
global warming. In addition
to it, the start of
"COPs"; Conference was the Parties,
whose 29th Summit is
going to happen in Baku
in the ongoing month.
Besides all these, the
World Community is taking
some more initiatives to
tackle the threat of
global warming. It is
a good sign that all
countries have realized
that how seriously the
global warming is hurting
the planet and they
are serious to alleviate
the consequences of
global warming.
Apart from these
efforts, some other measures
need to be taken on
global level to reduce

this issue.

First of all, the non-renewable energy sources like coal, oil and natural gas must be replaced with the renewable energy sources like solar, hydel and wind energy.

The renewable sources will reduce the greenhouse gas emissions and the temperature of the earth will also gradually decrease.

The government should device policies to encourage energy companies to use renewable sources of energy.

Apart from Write full form govts, the NGOs and some other institutions can play their role by motivating and

convincing the people to shift to alternative sources of energy. This will create a clear difference.

Secondly, the genetically engineered crops should be introduced. These crops will reduce the earth's temperature because they increase the soil-carbon sequestration, thereby keeping carbon dioxide in the ground rather than ^{yet} ~~releasing~~ into the atmosphere. So these crops will not contribute to global warming. Moreover, such crops should be introduced that are drought resistance. These crops adapt to drought very quickly and maintain the normal growth and development. Some crops like corn, wheat and rice have become tolerant to drought via genetic engineering. So more such crops should be introduced. Furthermore, the saline resistance crops must also be introduced.

The most important measure that should be taken is to control the deforestation. There must be a ban on cutting of the trees. Instead, afforestation should be encouraged and new forests should be planted to trap the excessive carbon dioxide. According to a recent research, study, a silver maple sapling would sequester 400 pounds of CO_2 over 25 years. So the new forest will trap the carbon dioxide and release oxygen by making environment more healthy for the human beings to live. Besides this, technology transfer is another solution. First of all, the petrol cars must be replaced with the electric cars.

These cars will minimize the carbon emission, leading to decreased greenhouse gases and air pollution.

Secondly, carbon engineering should be introduced to capture more carbon dioxide.

These measures, if taken, can reduce the greenhouse gas emissions to a great extent.

Because it is certain that earth is losing its stability, grace and beauty due to human activities; so now men have to take up some measures to protect the environment.

To lastly, the population should be controlled. Because when the population increases, the demands for food, houses and

for other goods increases
As a result, men have
to install more industries,
grow more crops. Deforestation
also increases due to
the need of houses
and agricultural land. All
these factors collectively
contribute to the increased
temperature of the earth's
surface and greenhouse
gas emissions. So, the
government must introduce
policies to control the
population of the country.
In fact, all the countries
should take steps to
reduce the population
explosion.

To conclude this
argument, it is fair to
state that it is high
time to realize that it
is an alarming situation for

the planet and man have
to think deeply to save
it for his survival and
the future generation. ✓ It

is now in man's hand
to protect the planet.

But man is only
contributing to the destruction
of the environment. ✓ All

the human activities are

the reason behind the
global warming. ✓ But now

to curb the global
warming and drastic climate
change, certain measures need

to be taken, no matter
how difficult they may

seem. ✓ Men have to change

some of its strategies

and activities to reduce

this menace. ✓ The use

of fossil fuels, deforestation,

use of CFCs emitting

these gadgets and unchecked

population explosion are the engines that fuel the global warming and men have to abandon all these activities. Because the global warming is leaving impacts on every sector of life. Whether it be, human health, food availability, occurrence of frequent climate disasters or a melting of glaciers, the spectre of global warming is haunting every sector of life. A vast majority remains unaware of the potential hazards of damage to the environment. So the government and NGOs should aware the people and motivate them to perform such activities that can mitigate the impacts of global

Date: ___/___/20___

MON TUE WED THS FRI SAT
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Warming world community
has taken steps to
improve the quality of
environment but still some
more efforts are required
to completely tackle
this issue. Now it's upto
men to ensure whether
the air, which he is
inhaling, has to be clean
or polluted.