

①

Date: _____

M T W T F S

Misbah Habib 339

Essay

The Environment has gone beyond the tipping point

2) Introduction

2) How is it evident that environment has gone beyond the tipping point?

3) Factors behind Environmental degradation

- a) Combustion of fossil fuels
- b) Use of pesticides
- c) Massive Deforestation
- d) Rapid population growth

4) Environmental degradation fostered irreparable losses

- a) Catastrophic Floods
- b) Extreme changes in weather patterns
- c) Melting of glaciers and polar ice
- d) Humanitarian Crisis

- e) Respiratory diseases
- f) Rise in Global temperature
- g) Water crisis
- h) Loss of Biodiversity
- i) Encroachment on coastal areas
- j) Food insecurity

5) Factors ^{hindering} mitigation of Environmental chaos

a) National interest

b) Divide between developed and developing countries

6) Measures that will create nuance to counter environmental change

a) Shifting towards renewable energy sources

b) Financial assistance to developing countries to counter environmental challenges

c) Controlling population

7) Conclusion

Date: _____

M T W T F S

We are first generation witnessing the impacts of climate change and last generation that can do something about it.

(former US president, Barack Obama)

The US president clearly mentioned that climate change is

the biggest elephant in the room.

As to ruffle the features of climate chaos there is an urgent to ~~will~~ take steps to mitigate it.

As climate change is man made chaos, consequence of combustion of fossil fuel, use of pesticides, massive deforestation and rapid

population growth. This environmental degradation festered irreparable

losses in form of catastrophic rains, extreme floods due to

melting of glaciers and ice sheets and created the humanitarian

crisis. Furthermore, respiratory diseases,

water crisis or scarcity, loss of

Date: _____

M T W T F S

of biodiversity and food insecurity are the consequences of climate change. All these factors collectively brought the humans and mother nature at the brink of collapse. As there are certain factors that hinder the mitigation measures do apprehend the environmental chaos. These hinderance are vested national interest and gap between developed and developing nations. However, shifting from non-renewable energy resources to renewable energy resources can help ~~the~~ control the menace of climate change. Furthermore financial assistance from developed nations to developing countries and controlling population can contribute towards the ~~control~~ mitigating the climate impacts. However, Climate change adversely impacted the all sphere

Date: _____

(M T W T F S)

of human life. It became uncontrollable and created irreparable losses. Hence, effective measures are required to control the climate impacts.

It is evident that environment has gone beyond the tipping point as it has brought a lot of catastrophes to humans. After the invention of spinning wheel and industrialization in 17th century the environmentalist witnessed many change in the climate. The impacts of climate adverse effects were explained in these two books after the industrialization **Silent Spring** by **Richard Carson** and **Unstoppable any speed** by **Rafel Nadel**. These two books explained the climate change is unstoppable at any speed and will exacerbate the humanitarian crisis in future. Hence, there is the need to control the adverse effect of

Date: _____

climate, otherwise it will deteriorate the ecosystem. in

The catastrophic floods are the consequence of climate change. It created the irreversible catastrophes in the world. Different part of the world faced severe flood like Japan, India, Indonesia and Pakistan. It cause loss of human life, agricultural loss and demise of live stocks. According to **Economic Survey of Pakistan (2022-23)** floods impacted the $\frac{1}{5}$ area of Pakistan and caused \$30 billion dollar infrastructure loss. Around 1 lac dairy livestock were lost. Hence, the menace of climate reach beyond the tipping point.

The factors that are contributing towards the climate change are many chief among them is the combustion of fossil fuels. This contributes the concentration of Carbon dioxide, Nitrox oxides NO_2

Date: _____

(M) (T) (W) (T) (F) (S)

other green house gasses in the air.

According to 5th Assessment report

IPPC (Interprovincial panel on climate

change that Energy sector contributes

35%, agriculture sector contributes

25%, ^{Industry} transport sector contributes

21% and transport 15% in global

warming. Hence, these are main contributors

that causing incurable losses

Furthermore, use of pesticide also contributes in the climate

change. According to UN Food

and agriculture organization

the use of pesticide creates the

disturbance in ecosystem by impacting

the prey and predator. Furthermore,

these pesticide impacts the nutrients

in soil, hence; it cause the hopeless

environmental catastrophies.

Moreover, the massive

deforestation is the cause of global

warming. As trees are considered

as Carbon Sinks. The deforestation impacts

Date: _____

M T W T F S

the environment. According to Global Forest Watch, 10^{million} hector area

has been deforested in last 10 years. It is an alarming situation. Hence, massive deforestation is the cause of irreversible climate impacts.

Moreover correspondingly, the rapid population growth is another reason that create incurable climate catastrophe. According to

American Bureau of Statistic the world population has reached 8 billion. According Malthusian

Population theory the resources increase in arithmetically while population increases geometrically. Hence, this exponential growth contributes the over exploitation of natural resources which in result create the stress in climate environment. Hence, this leads to unsalvageable losses.

Date: _____

(M) (T) (W) (T) (F) (S)

Similarly, these causes exacerbate the environmental unrepairable losses. The melting of glaciers and ice-sheet is evident in different part of the world. As the result it foster multiple diseases which were froze under the ice sheet in ^{form of} different bacteria and

virus. **International commission on ice and snow** represented the report which explained that **Antarctica** glaciers was melted which was 4' time bigger than the London city. Furthermore, **Tibet plateau**, **Russian glaciers** and **Himalaya** witnessed the melting of ice-sheets. Hence, ^{The} melting of ice-sheet is increasing sea-water level. Hence, it contributing in incurable loss.

Moreover, the extreme change in weather patterns have been witnessed in last few years. These changing weather patterns impact

Date: _____

M T W T F S

the agriculture sector. **Pakistan**
Meteorological Department presented
the report that alone in June
and July Pakistan witnessed
83 spells of rains. These rains
and monsoon large spell create
the disastrous impacts on the
humans and animal. Hence, it is
creating unrepairable losses to
mankind.

In the same way, it
creates human crisis in world.

As alone in Pakistan floods
had impacted the life of **33 million**
people and result of more than
thousand human's demise or loss
of life. These flood increase
the reconstruction and rehabilitation
cost. (**Economic Survey of Pakistan**
2022-23). Hence, it is exacerbating
the humanitarian crisis as environment
has gone beyond the tipping point.

Furthermore, it is causing

Date: _____

(M T W T F S)

respiratory diseases due to smog. As the increase in nitrous oxide N_2O creates the smog and it leads to respiratory diseases like asthma and Bronchitis. Moreover, the poor air quality reduce the life expectancy (~~united nation~~ WHO) Pakistan and India are the lower in Air Quality Index. As Pakistan Ranked 148 in AQI. Hence, the environment is causing chaos beyond the tipping point.

Correspondingly, climate change is exacerbating the global temperature in the world. The year 2021-2023 witnessed record temperature in the world different incident of death has happened in the world due to heat stroke.

According to WHO report 1600 death in London, 4500 in India and 1200 in Pakistan have been witnessed due to heat stroke

Hence, environment is contributing incalculable losses in the world.

In similar way, the world has witnessed the water scarcity in the world due to climate or environmental causes.

According to **UNICEF** 4 billion people in the world are facing water scarcity which is half of the population of the world. Moreover, it is being estimated that the world will witness drought situation in 2030 due to climate change. Hence, climate is creating risks in the world by creating scarcity of resources.

Furthermore, the loss of biodiversity is the result of climate change. According to **IUCN** (International Union for Conservation of Nature) explained in its report that $\frac{1}{4}$ bird and $\frac{1}{4}$ mammal are near to extinct.

Date: _____

M T W T F S

due to climate change. Hence,
this menace of climate change
is creating permanent losses.

Another, consequence of
climate is the encroachment on
the coastal areas. According to
International Maritime organization

there is rise in sea level have
been witnessed. Due to rise
in sea level there is chances
of disappearance of Island. It will
create the refugee crisis as well.

Due encroachment on coastal
areas **Indonesia changed its
capital from Jakarta**. Hence,
this menace of climate is create
the disastrous impacts.

According to the
Similarly, the food
insecurity is also become the
challenge for human race. As
change in climate patterns **cause**
Abandon, Narcosis, Drowsism and

Date: _____

dislocation of flowers in plant.

In nutshell, it cause overall growth of plants. (UNDP) 30% to 70% medicine are made from plants.

Hence, the climate impacts the food chain. According to UN Food and agriculture organization 783 million are facing food insecurity. Hence, this climate will further worsen the (climate) food (insecurity) security beyond the its recovery.

However, there are certain factors that are contributing towards the hindering the mitigation of environmental chaos. The national interest is one that is exacerbating the environmental chaos. "Paying

Pullsters 2023" a report presented in UNGA it explained that countries are paying biggest industries subsidies in order to implement the environment laws in the

country. Hence, it is alarming that such industries enjoy the funds and pollute the environment.

The main tactics these industries used is Pressure known as mentioned in the book **Pioneering by Benny**. Hence, to prioritize national interest over global climate the countries paying polluters. Hence it hinders the mitigating steps.

Moreover, the divide between developed and developing nations also exacerbate the environmental chaos. As this divide has been witnessed in many international forum like

COP (Conference of Parties) Hence

As developed nations are main contributor of carbon emission and this adversely impact the developing nations. Hence, divide contribute in worsening climate situation.

However, this meagre

can be controlled through the shifting from non-renewable energy resources to renewable energy resources. As the major chunk of CO₂ is emitted to environment is energy sector. Hence, shifting energy resources will create the great impact.

More developed nations should provide financial assistance to developing nations in order to counter the climate challenges. As developing nations are hit by the climate impact, hence it will help in mitigating the climate impacts.

Furthermore, the controlling the population will create the great impact on the environment. This can be controlled through mutual cooperation between people and countries. Governments should spread awareness to masses

(5)

Date: _____

M T W T F S

regarding use of birth control pills and family planning. Hence, it will help in ~~creation~~ controlling environmental impact.

Conclusion

In summation, the Global Environment has gone beyond the tipping point by creating multiple humanitarian crisis, catastrophic disasters and other food security menace. These losses are beyond the irreparable. Hence, still there is the urgent need to address all the challenges. As there is always a ray of hope even in the darkest of the tunnel.