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Batch No:- 072 ; ID No:- 39992

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Pakistan climate change

Outline:-

Introduction:-

"Climate change is no longer a far-off problem; it is happening now. It is happening now; and we are 1st generation to feel the impact of climate change and last generation who can do something about it."

(Barack Obama)

In this quote Obama consistently emphasized that climate change was not a future threat but a current reality. We are 1st generation feel the impact of climate change because many decades ago human being were not facing such as a severe climate change problems.

Climate change:-

Climate change generally a change in global or regional climate patterns. United Nations defined it long-term shifts in temperatures and weather patterns.

Points and content are okay

Work on your writing skills

Focus on your grammatical mistakes

Work on tenses as well

Write conclusion. At the end

Always capitalize proper noun

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Climate change in Pakistan Ps

Increasing due to green house gas, especially CO_2 release due to human activities like burning fuel fuel, deforestation, and vehicle smoke. This activity trap heat in the atmosphere, leading to global warming and range of related Impacts extreme events, water scarcity, food security and greenhouse gas emissions. In pakistan

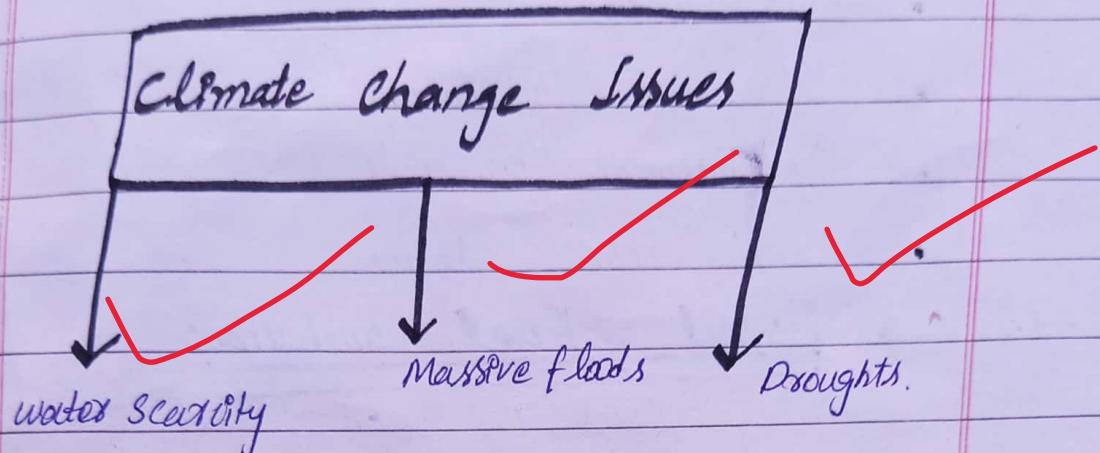
History recorded temperature 2012 - May

44°C and May-2022 temperature recorded 47°C and 3°C increase in temperature is the biggest number. Biggest organization and think tank reported Pakistan is included in high climate change country.

Germanwatch Report

German think tank publish report by GCRI (Global Climate Risk Index) in Pakistan (2000-2019) 10,000 people died due to climate change and pakistan economy loss 3.8 \$ billion.

According to Pakistan Council of Research Pakistan face three main issues due to climate change.



Heatwave → increase temperature (5-6)°C

PMD → Pakistan Meteorological Department

A report published Jun 2015

in Karachi a severe heatwave

people died 2000 and 6500 people admitted to hospital.

In Pakistan climate change is severe

due to CO₂ and have negative effect on

our mental, physical, economic, Health

production, resources and geographical.

It is threat to control the Green

house gas, human activities decreases and

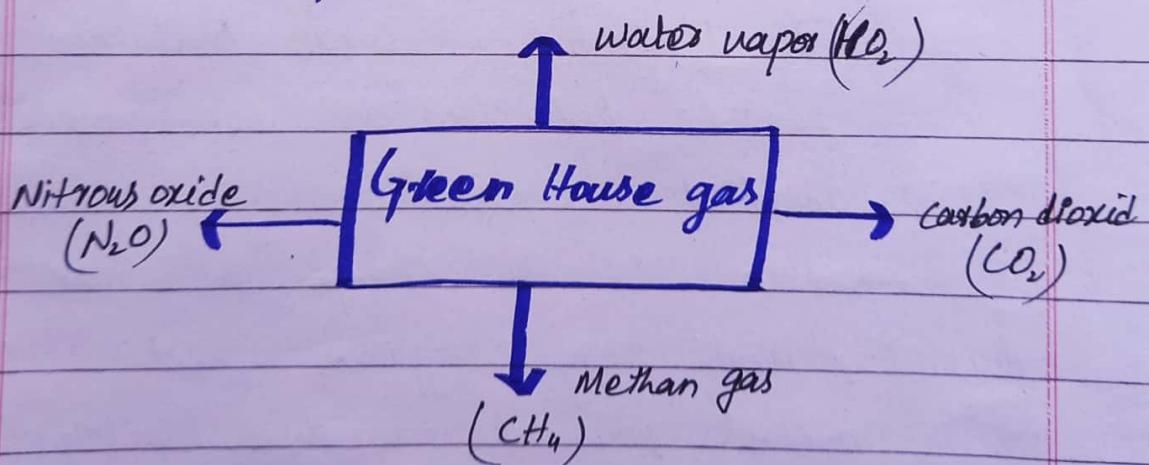
global warming issues.

Causes

- Fossil Fuel Combustion
- Deforestation
- Industrial pollution
- Agricultural practices
- Land use change

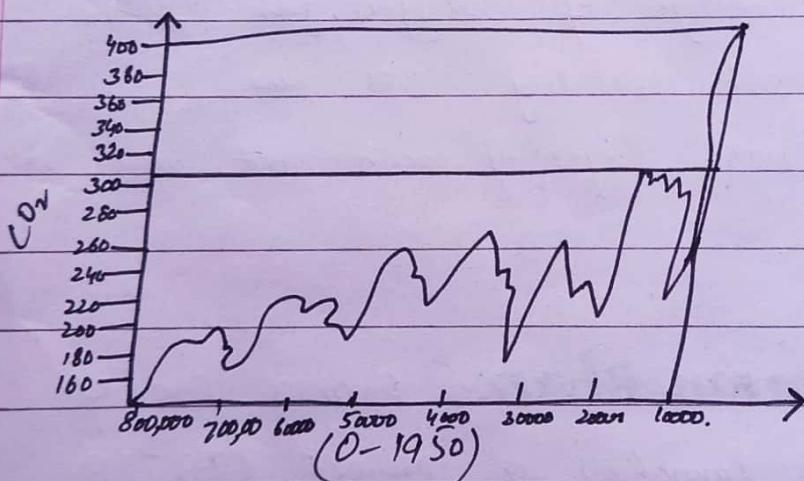
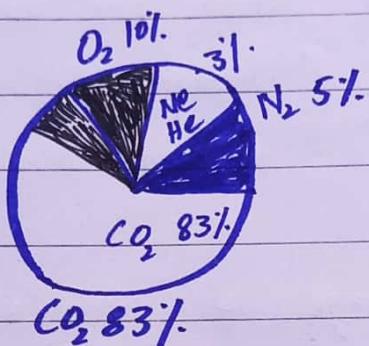
1.2 → Fossil Fuel Combustion:-

Burning coal, oil and natural gas for energy generation releases large amount of carbon dioxide (CO_2) gas into the atmosphere, a major green house gases release which increases the earth temperature.



powerful green house that blanket the Earth and trap the sun's heat and raise the temperature of the earth.

The last decade (2011-2020), is the warmest on record. Since 1980, each decade has been warmer than the previous one. CO_2 Increases last 1950 and raise temperature 3 times from 1950.



This graph shows that temperature increase due to CO_2 Increase.

In Pakistan 2023, produced CO_2 nearly 200 million metric tons due to fossil fuel.

CO_2 emissions in 2020 0.01% Increase from 2019.

2.2 → Deforestation,
Trees absorbs carbon dioxide, so
deforestation reduces the Earth's capacity
to store carbon and releases stored carbon
into the atmosphere. Deforestation refers
to cut down trees for house, fire, place
and making furniture. Deforestation causes
shortage human and living thing activity.

Causes:-

- Shortage of rainfall.
- Shortage of oxygen gas.
- Earth fertility crops low.
- crust layers of earth not maintain nutrient.

P.m Imran Khan:- Formed P.m of
Pakistan launches a project (TB TPP)
10 billion tree project next 10 years
produce 148 million tons carbon dioxide gas
absorbs. Tree planting next 10 years
148 million tons absorbs CO_2 . Each year
approximately 12 millions hectares of forest
destroyed.

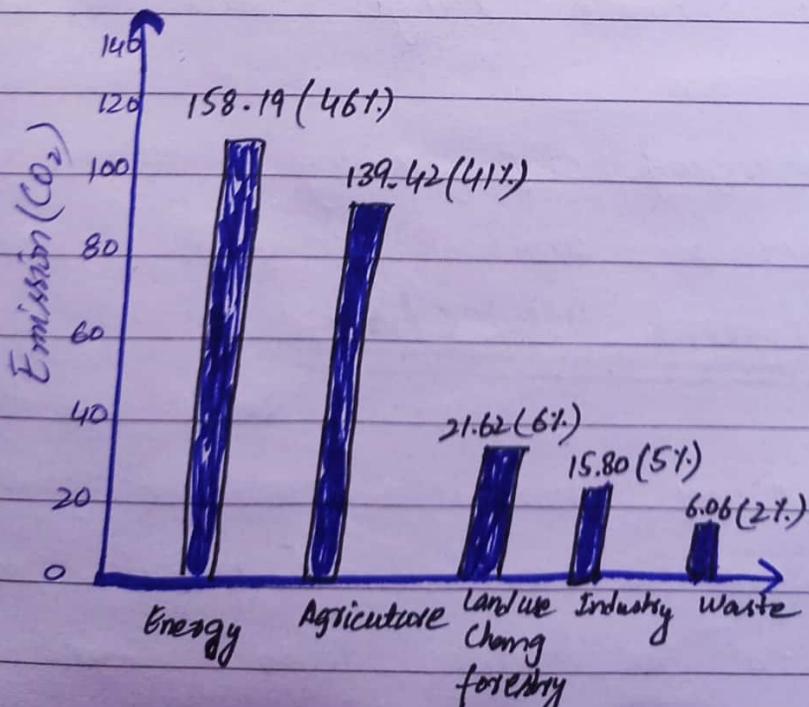
1.3 Industrial pollution:

Manufacturing and Industry produce emissions, mostly from burning fossil fuels to produce energy for making things like cement, Iron, steel, electronics, plastics, clothes and other goods. Mining and other Industrial processes also release gases. manufacturing Industry is one of the largest contributors to greenhouse gas emissions.

(Scientific Direct Search)

Pakistan climate change due to Industry less than 1% of the green house gases emissions.

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1.4

→ Agricultural practices-

Livestock (Methan from belching cattle)

and rice cultivation (Methan), as well as

fertilizers application (Nitrous oxide)

contribute to greenhouse gas emissions

from the agricultural sector.

For production of agriculture people

use chemicals, pesticides, fertilizers and other

products, these are formed by Industry

or machine which release CO_2 and

enhance temperature. these chemicals effects

our life

→ In Pakistan → 60% people depend

upon agriculture by direct or Indirect

way.

Due to climate change our agriculture

depend upon

→ Changing crop growing patterns

→ Decrease annual rainfall.

1.5

→ Land use Change

Land use change

Driven by urbanization, population, growth

and economic development. Urban areas

tend to be hotter than surrounding

rural areas due to high concentrations of buildings and material that absorb heat, contributed to increased temperature. Land change occurs due to direct or indirect human intervention.

Lahore is facing imminent

threats from rapid land use.

In Pak:

In Pakistan (2010-30) CO_2

12% increase. Pakistan agreement in pasts will reduce CO_2 50% less till 2030.

German Report Watch

telling about 1999 Pak is most effected country climate change.

Effects:-

1.1 Increased natural disasters:-

Pakistan climate change have

natural disaster Impacts. Pakistan experience more frequent and intense floods, droughts and cyclones. In 2022 floods caused

widespread devastation, affecting 30 million

and causing significant economic loss.

8 Oct 2005 Earthquake in Quetta, KPK

Caused death about (40,000-60,000)

Due to climate change many people died

World Bank, Asian Development

Bank (Pakistan climate change risk
rank 8th in world)

Temperature in Arctic is increased
which cause natural disasters.

1.2 Water Scarcity

Climate change caused
scarcity of water in per, Pakistan
rank in water scarcity at 3rd.
Pakistan projections indicating 50%
decline in water availability by 2050.
This poses a threat to agriculture,
drinking water supplies, and energy
generation.

Our agriculture depends upon three
main factors, (water, Sun, Nutrients)

If water scarcity not control our economic, agricultural, population and all livingthing will be effected.

1.3 Food Inseurity

~~Changes in Weather~~
patterns and Increased frequency of extreme events are Impacting agriculture, leading to reduced crop yields and threatening food security.

- production are shortage
- crops yield most effect.
- Organic products included chemicals.

1.4 Health Risks:-

Rising temperatures and changing weather patterns are contributing to heat-related illnesses, increased air pollution, Impacting public health. psychological Impacts anxiety, stress.

Disease

- Asthma, Sneezing, Allergy
- Lung issues, anxiety in young people
- High risk of (breathing, fever, Headach)

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1.5 Glacier Retreat:

In Pakistan's

northern glaciers are melting rapidly due to rising temperatures, leading to potential water shortage and increased flood risk

Scientist theory

Increasing temperature

Ice sheets melt which causes sea level rise. In Pakistan (1960-2020) 4 millions ~~acres~~ land are included in sea level.

1.5 Economic Stability:

Climate-related

disasters are causing damage to infrastructure, loss of money, loss of agricultural production, and increased health care costs, straining the national budget and hindering economic health.

Conclusion:-

Improvement climate chang

In Pakistan climate change increased temperature causing green house gas, which have many impacts on our social, economic, agricultural sector and mental and other factors of health. So we should reduced all these causing factors Increased emissions Co₂.

steps

- used cycling instead of vehicle.
- Don't waste organic products.
- Used wind energy, solar energy.
- Reduced energy consumption.
- Implement tax Government on Industry
- Tree planting promotes every year.
- Water preserved.
- Reduced the used of electricity.
- International cooperation.

We can reduced climate change factors by adopting above factors.

In Pakistan our mission reduce 50% decrease Co₂ up 2030.

Elon Musk:-

"Elon Musk (carbon capture technology) Tree convert CO_2 into O_2 and rocket fuel."

World largest carbon capture plant implanted in **Iceland** 9 Sep 2021
Annually 4000 tons collect convert O_2 and Rocket fuel.

Bill Gates :-

In 2021 a book publish
How to avoid climate disaster

"Zero emission"

CO_2 for it country
depend upon wind energy, solar energy

Nuclear

Agreement emissions need to be
reduced by 45% by 2030 and each
net zero by 2050.