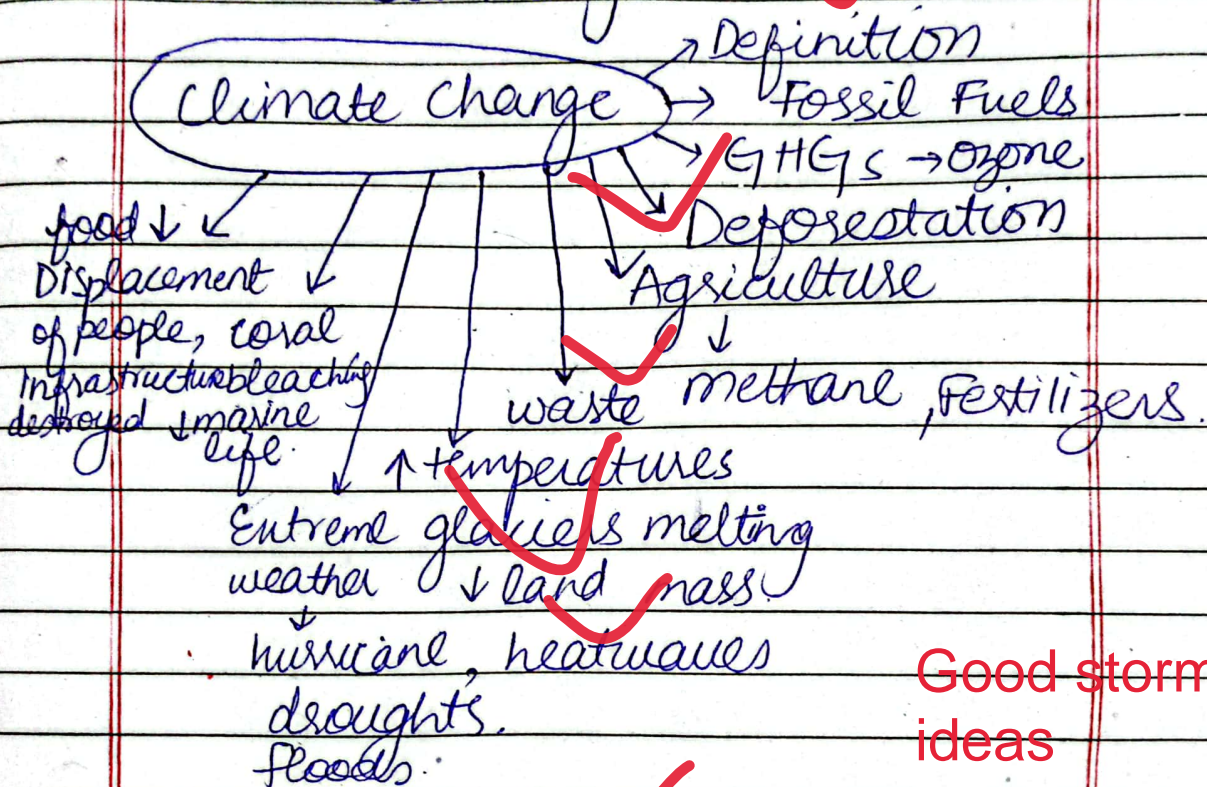11 Sep:24 — BY Aeman Rashid

→ outline
→ thesis statement
→ introductory paragraph.

Climate Change: Causes & Consequences.

Brain storming

Climate change → Definition
→ Fossil Fuels
→ GHGs → ozone
→ Deforestation
Agriculture
   ↓
food ↓
Displacement ↓
of people, coral
infrastructure bleaching
destroyed, marine   waste methane, Fertilizers.
life.
         ↑ temperatures
Extreme glaciers melting
weather ↓ land mass
   ↓
· hurricane, heatwaves
   droughts,
   floods.

General → ↓ GHGs, Renewable source,
conservation of forest, Policies of govt,
individual actions, Education.

Good storm of ideas

Outline

I. Introduction
a. Definition and quotation of
   Ban Ki-moon.
b. Hook → imaging a world

devastated by climate change, showing importance

C. Thesis statement:
Climate change — a reality, driven mainly by human activities such as fossil fuel combustion, greenhouse gas emission, agricultural practices and improper waste disposal leads to severe environmental and societal consequences, including increased global temperatures, extreme weather events and disruptions to human and animal lives.

II Main body
a Causes of climate change
1 Increased fossil fuel use
i. Used in transportation and industrial machinery
ii. Greenhouse gasses → f/f
In 2022 global CO_2 emissions from fossil fuels and industry → 36.8 billion metric tons, highlighting human large scale human impact on climate.

2. Deforestation
i Trees as carbon sinks-lost.
eg A mature tree can absorb

approximately 32kgs of carbon dioxide per year.

ii. Decreased biodiversity

   Mention of species lost / disruption in ecosystems.

3. Agricultural Practices.

   i. Methane - a GHG by livestock and rice agriculture.

   eg cows → 70-120kg / year

   sheep → 10-20kg/year

   goats → 10-20kg/year.

   ii. Use of synthetic fertilizers and pesticides.

   → Pollution of water, air and land

4. Improper waste management

   i. landfills → mention methane emission and how it is more damaging to the environment than CO_2 (carbon dioxide) → leachate

   ii. Incineration → carbon emissions

   example: burning 1 ton of municipal solid waste can produce 0.8 to 1.2 tons of carbon dioxide.

b. Consequences of climate change.

1. Increase in Global temperatures

i. overall increased temperature,
F/F since the late 19th century
Earth's average temperature
has increased by approximately
1.2°C with the rate of warming
accelerating.

ii. Melting glaciers and polar
caps. (Decrease fresh
water resource, decrease
land mass)

2. Extreme weather events:
i. hurricane and storms
ii. Droughts and floods.
According to WMO, frequency
of extreme droughts has
increased over the past
few decades. The number
of severe droughts → have
risen by 30% since the 1960s.

3. Disruption to land and
marine ecosystems
i. land ecosystem disruption
→ Mention species migration,
loss of biodiversity and
wildfires, eg 2019-2020
Australian bushfires burned
over 18 million hectares,
significantly affecting
biodiversity

ii. Marine ecosystem disruption

i   Coral Bleaching and coral health
     The great barrier reef
     severe bleaching in
     2016 and 2017.
     ~~Mention~~ ~~ocean~~ ~~acidification~~
ii   Ocean Acidification
     chemical changes and organisms
     affected.

q   Disruption of human
     life.
i   Decreased food production
ii   Displacement of people
.   Hurricane Katrina (floods) 1 million people displaced
iii Infrastructure destroyed.
     and economic losses.
     example due to floods
     in Pakistan the WB and
     ADB have assessed
     reconstruction cost → $15
     billion

Introductory Paragraph

     Climate change refers
     to long-term alterations
     in temperatures precipitation
     patterns and other aspects
     of Earth's climate system.
     Ban ki-moon former
     secretary general of the
     United nations said, "Climate

is the greatest challenge facing humanity today." This is especially true when we imagine a world where we dont take measures to stop the ongoing actions leading to climate change. How would that would look like? In a world where no measures are taken to halt climate change, the impacts would be severe and pervasive from heatwaves causing cities to experience record breaking temperatures leading to heat-stroke and chronic conditions to severe storms displacing populations and widspread destruction. The sea levels would rise submerging cities, eroding coastlines leading to loss of coastal habitats. A world that fails to address climate change would suffer. Therefore we must accept that climate change is a reality driven mainly by human activities such as fossil fuel combustion,

Date:_____

greenhouse gas emission, agricultural practices and improper waste disposal leading to severe environmental and societal consequences including increased global temperatures, extreme weather conditions and disruptions to human and animal lives.

Command over basic language is fine
Kindly try to write short sentences focusing on subject verb object