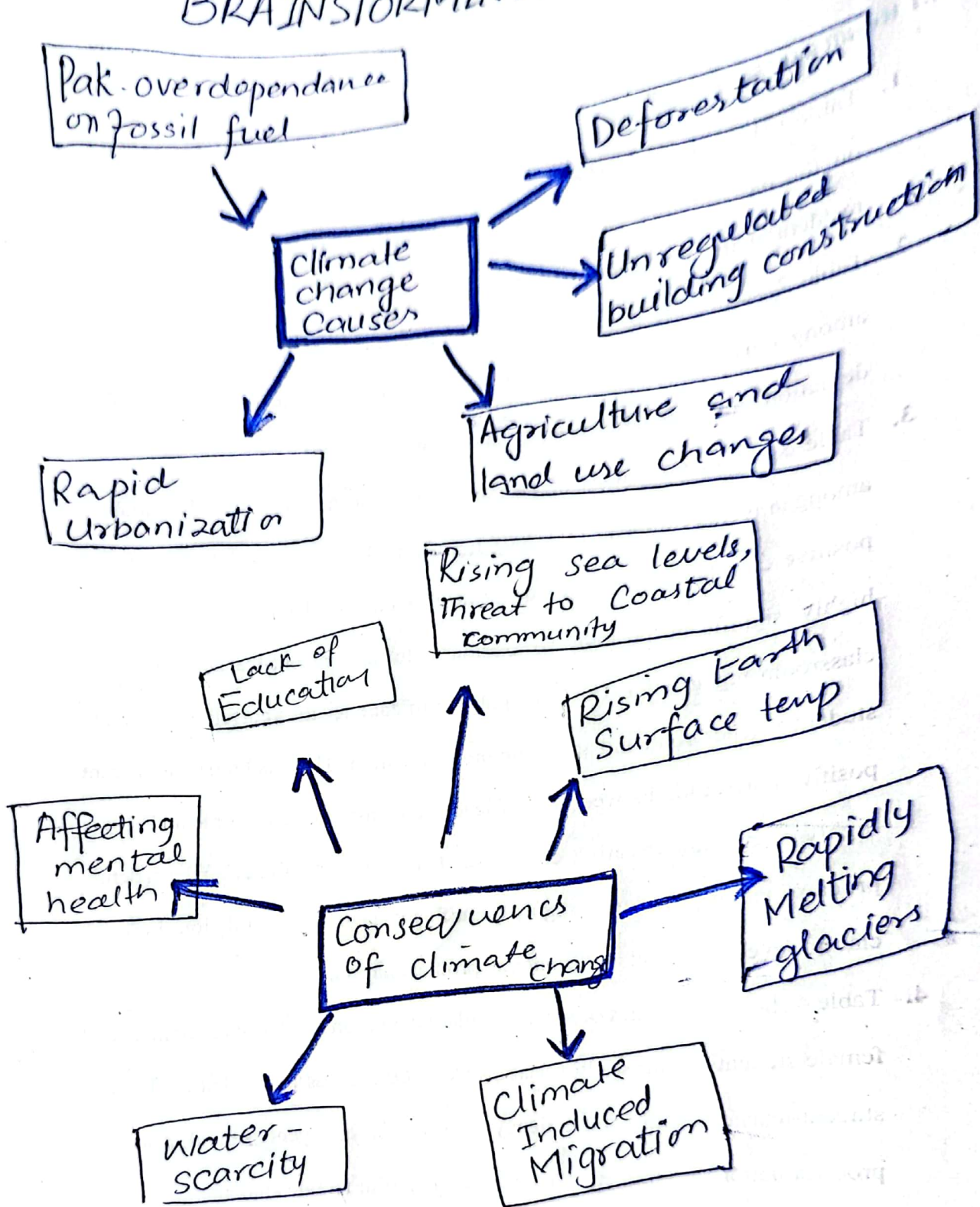


BRAINSTORMING



Assignment: Climate change in Pak : Causes and consequences.

Outline — Brainstorming —
only Introduction.

Climate change in Pakistan: Causes and Consequences

* OUTLINE

1) Introduction

-2 Causes of Climate change

2.1) Pakistan overdependence on fossil fuels.
↳ 64% energy requirement of Pakistan fulfilled from fossil fuels

2.2) Agriculture and land use changes
↳ 66000 acres of forest lost due to land use changes & unregulated logging

2.3 Deforestation for timber purposes
↳ deforestation at annual rate of 0.7% in Pakistan, highest in South Asia

2.4 Unregulated building construction
↳ construction industry contribution to Green house emission is 30-40% in Pak.

2.5) Rapid Urbanization in Pakistan
↳ rapid urbanization in cities like Karachi and Lahore leading to higher energy consumption, contributing to air pollution and carbon emission (IPCC, 2022)

-3 Consequences of climate change

3.1) Rising Earth Surface temp

↳ Pak witnessed 0.5°C rise
in temp since 1960s

3.2) Rapidly Melting glaciers

↳ 23.3% reduction in snowcover
and 16% loss in glaciers over
past 5 years in Pakistan

3.3) Climate induced Migration

↳ 8 million migrated in 2022
floods

3.4) Water scarcity

↳ Pak - 15th most stressed country in
world. It will become water scarce
by 2025 due to climate change

3.5) Affecting mental health

e.g. 20% to 50% people who experience
extreme weather events can develop
symptoms like anxiety, depression
and PTSD ~ Black dog institute

3.6 Lack of education

↳ 2m children unable to access
education due to 2022 floods in
Pak

3.7 Rising sea levels, and a threat
to coastal community.

↳ Rising sea level could
displace over 216m people
by 2050 globally. mainly
those near coastal region

Introduction:

"The world is on fire. This is not a metaphor"

Bill - McKibben

Since pre-industrialization era, world has witnessed a surge of 147°C in Earth's temperature as a result of human activities. This global warming is being felt all across the world and Pakistan is no exception. Climate change refers to long-term changes in temperature and weather patterns primarily due to human activities. Despite Pakistan's less than 1% contribution to global green house emission, it is facing a hard reality - that's climate change. Climate change has severely affected every part of country and proved to be an inevitable menace for it. Moreover, Pakistan is ranked as most vulnerable country to climate change (Climate Risk index, 2025) with further rise in temperature by 13°C to 1.5°C is being projected by 2050. This essay will explore multiple causes contributing to climate change which includes Pakistan's overdependence on fossil fuels, agriculture and land use changes, deforestation for timber purposes, unregulated building construction and rapid urbanization in Pakistan. Consequences can be observed in ^{form of} rising Earth surface temperature, rapidly melting glaciers, climate induced Migration, water scarcity, degraded mental health, Lack of education and rising sea levels, a threat to coastal community.

Climate change is not just threat to environmental security but economic security of a nation. We can't address