

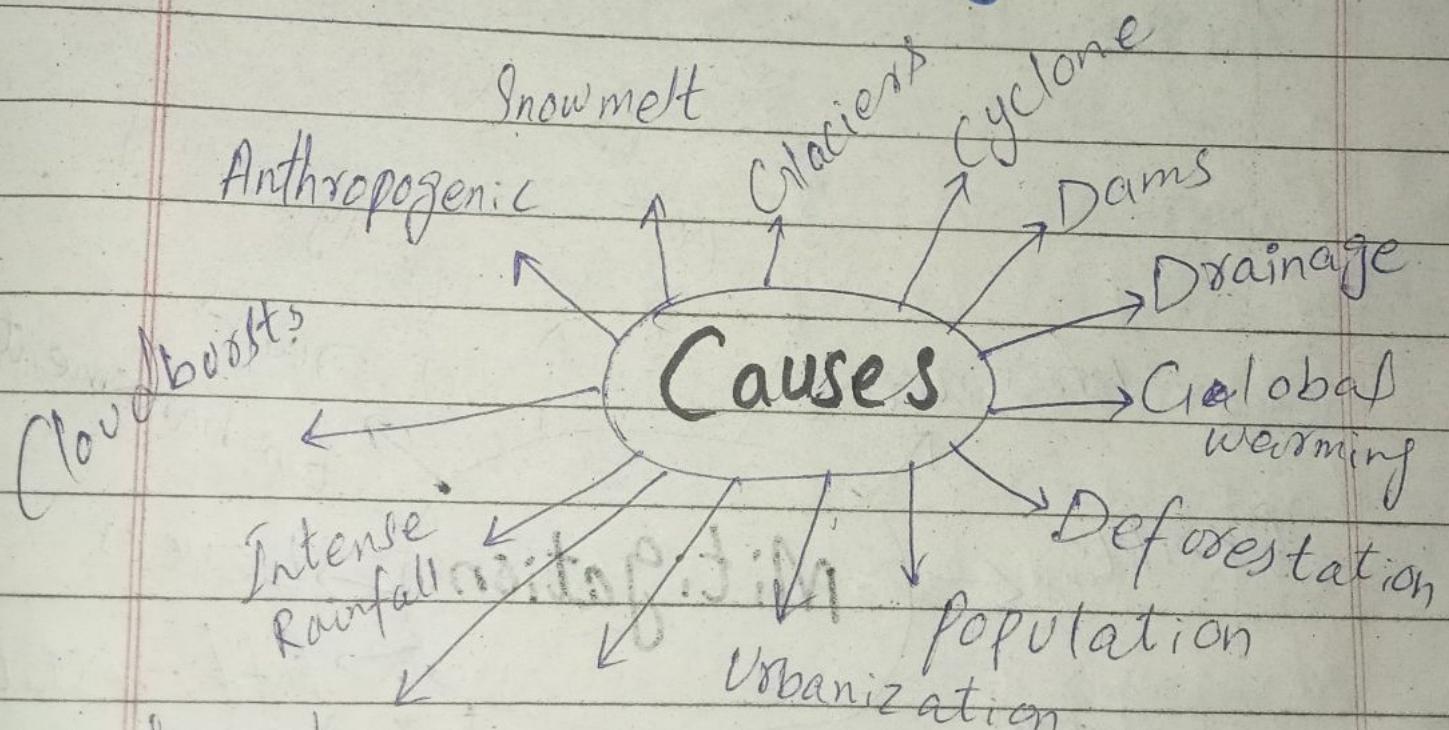
(i) Floods: Causes, Impacts, and Mitigation

(ii) The Growing Threat of Floods in the 21st Century

(iii) Floods: A Natural Disaster or Human-Made Crisis?

(iv) Flood Management: Challenges and Solutions

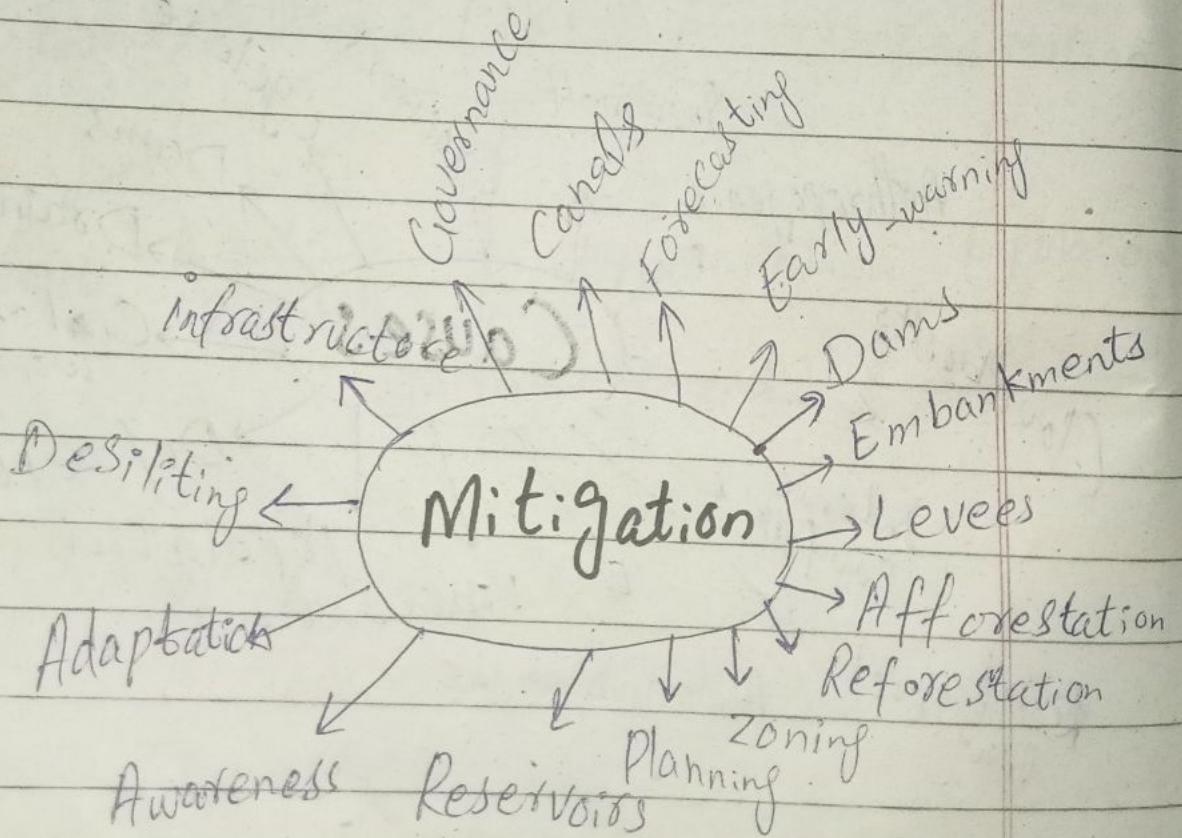
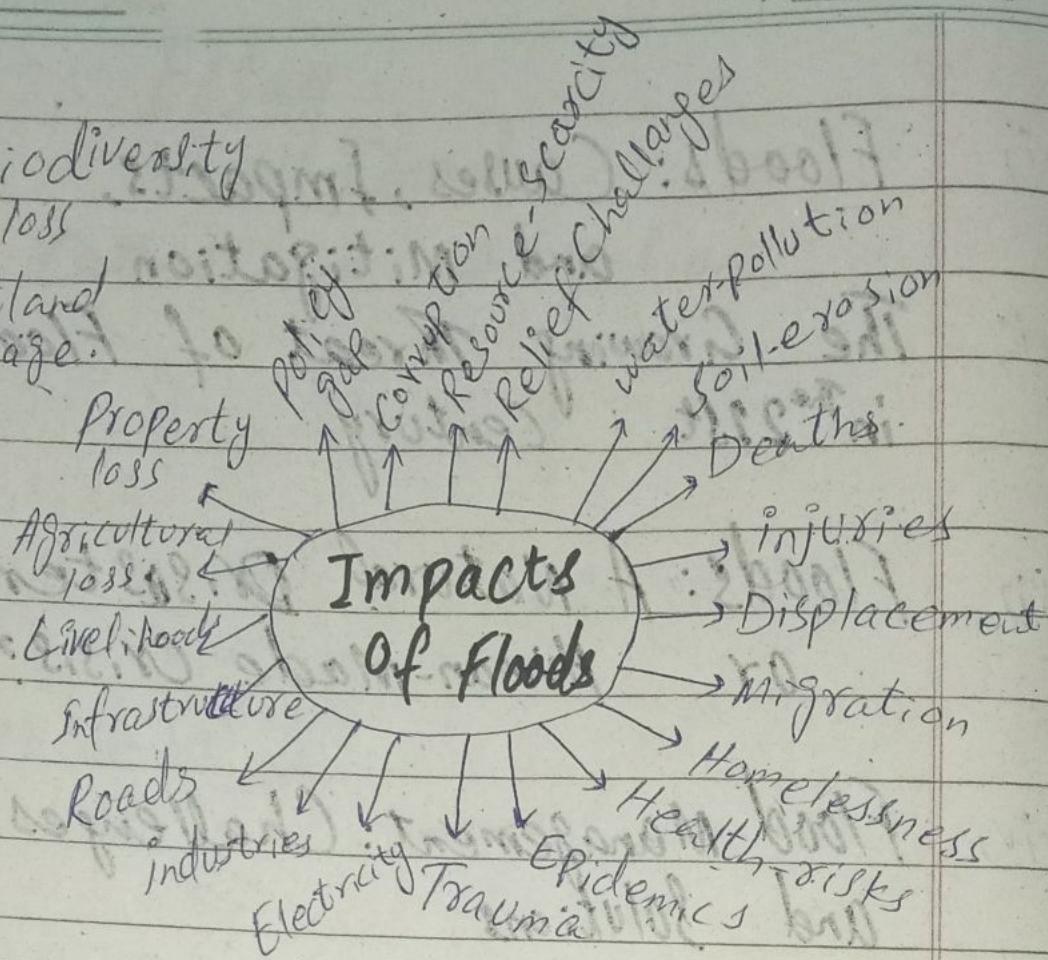
Brainstorming



Root level Mismanagement

- Biodiversity loss

- Wetland damage



Essay Topic

- 1 Floods: Causes, Impacts and Mitigation
- 2 Floods as a multidimensional Challenge in the Era of Climate change

Outline

- I Introduction
- A Hook
- B Background
- C Thesis Statement: Floods are no longer mere natural calamities; ~~They~~ ~~are~~ a complex outcome of climate change, anthropogenic interference, and governance failures, demanding integrated and sustainable mitigation strategies.

II Types of Floods

- A Riverine floods
- B Coastal floods

Date: _____

- C. flash floods
- D. Urban floods

III Causes of Floods

- A. **Natural**: Rainfall, Monsoon, Cyclones, Snow/glacial melt.
- B. **Climate Related**: Global warming, Rising sea-level, Extreme weather
- C. **Human-Induced**: Deforestation, Urbanization, Overpopulation, poor drainage.

IV Impacts of Floods

- A. **Human/social**: Deaths, Displacement, Health crisis.
- B. **Economic**: Agriculture, Infrastructure, Livelihoods
- C. **Environmental**: Soil erosion, water contamination, Biodiversity loss.
- D. **Governance**: Policy gaps, Relief challenges.

V Case Study: Pakistan Floods

A. **Geography:** Indus River plains, coastal and northern areas.

B. **Historical floods:** 2010, 2022

C. **2025 Floods:**

- (i) intense monsoon + Glacial melt
caused severe flooding.
- (ii) 1000+ deaths, 3 million displaced,
12500+ houses damaged
- (iii) Major impact in Punjab KP,
Sindh, Gilgit-Baltistan.
- (iv) Highlights climate change
link + governance gaps.

well organized and
quite relevant

VI Flood Mitigation & Management

A. **Structural Measures:** Dams.

Embankments, Drainage improvement.

B. **Non-Structural Measures:**

Afforestation, Reforestation,
Zoning, Early warning
Community awareness.

VII Challenges in Mitigation

A. Governance weaknesses

B. Resource implementation
Constraints

C. Climate unpredictability.

VIII Way

try to write with more logic and
more relevant

A. Integrated flood management

B. Climate-resilient infrastructure

C. Strengthening institutions

and community preparedness.

IX Conclusion