

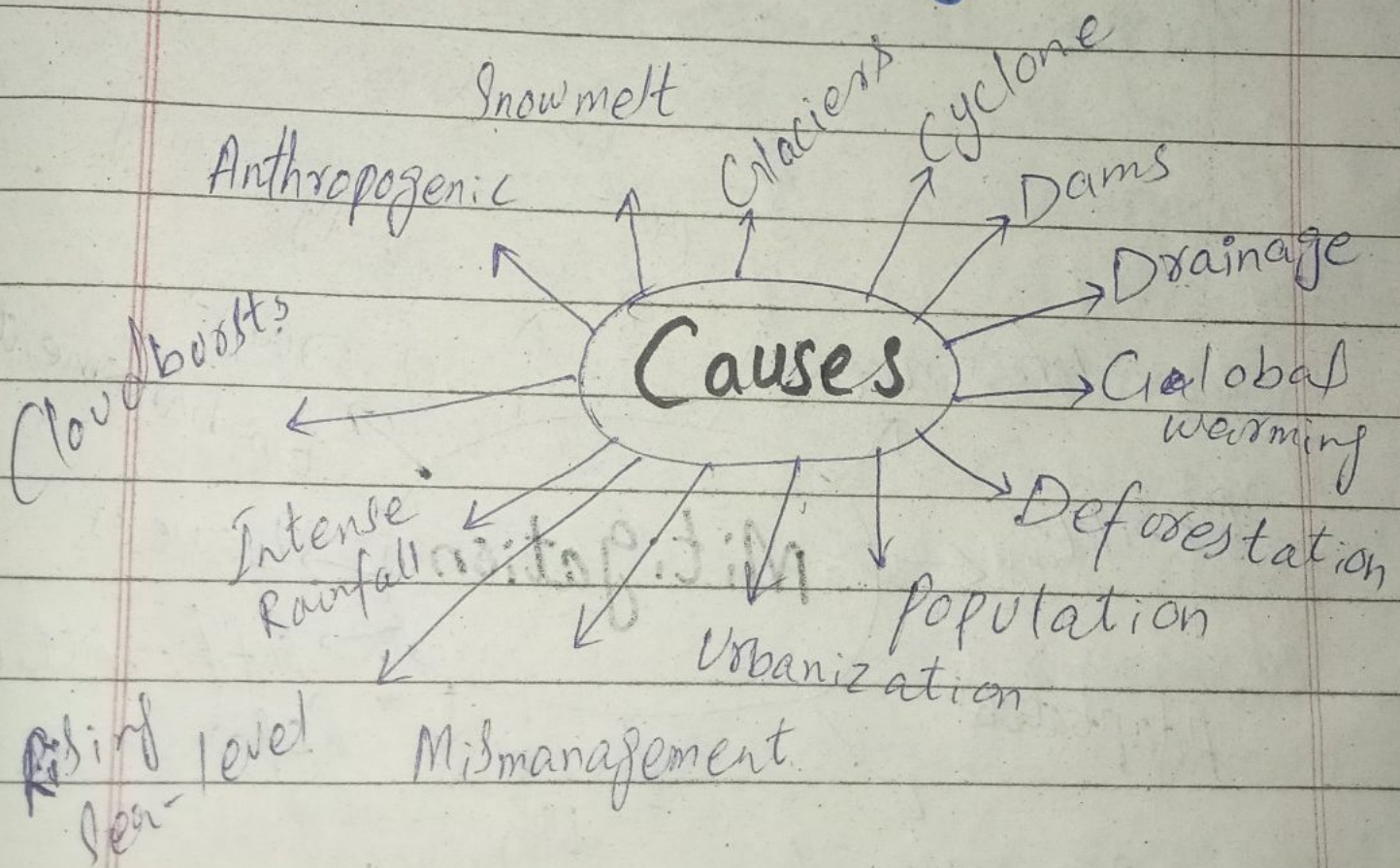
(i) Floods: Causes, Impacts,
and Mitigation

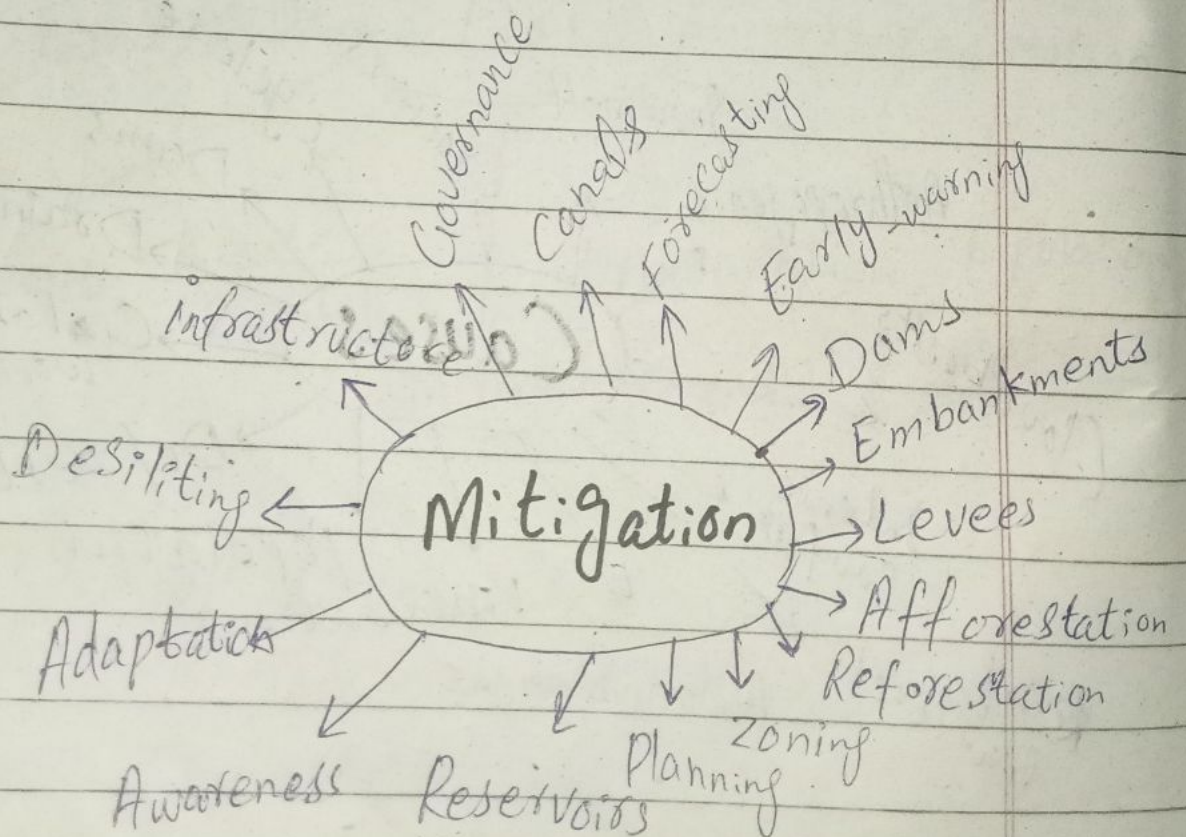
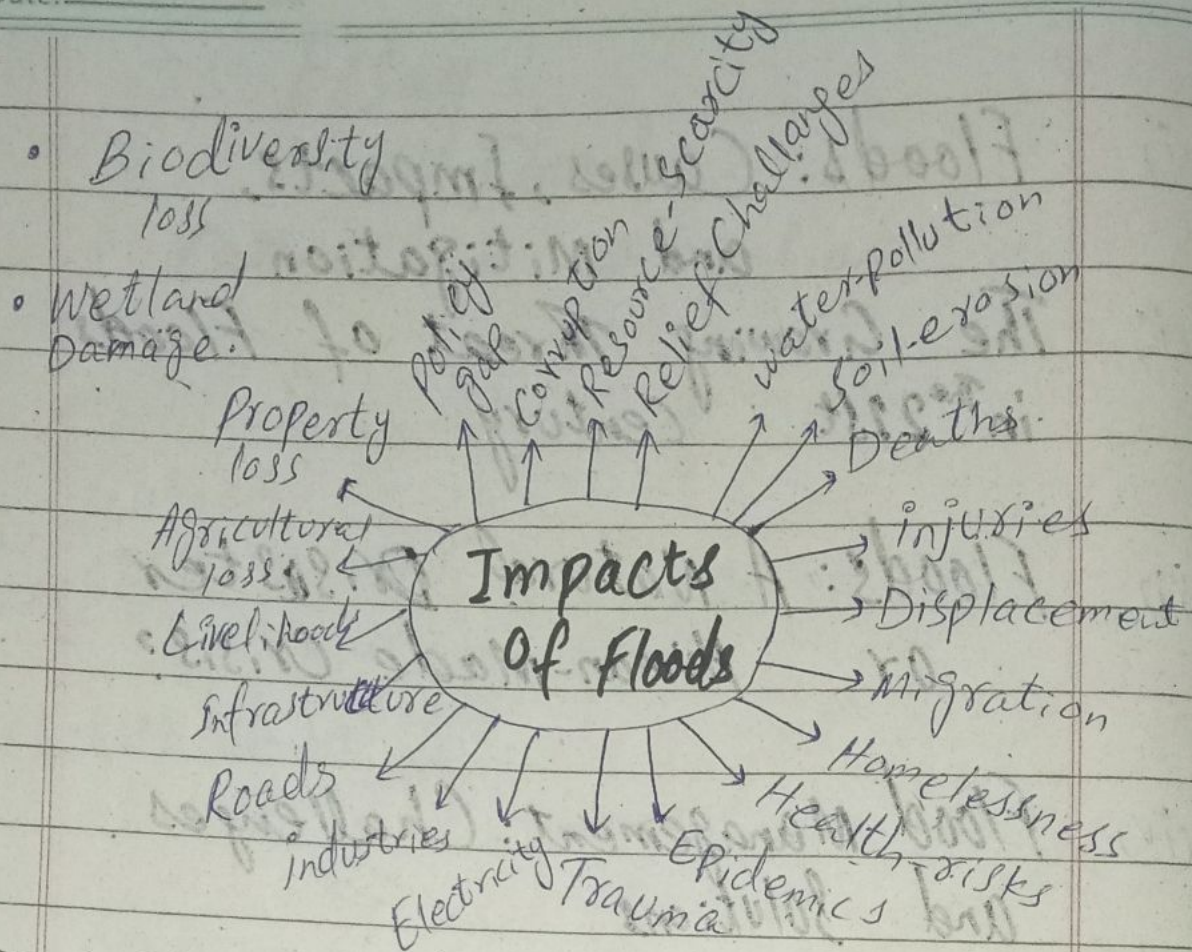
(ii) The Growing Threat of Floods
in ^{The} 21st Century

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

(iv) Flood Management: Challenges
and Solutions

Brainstorming





Date: 20-12-25

Day: M T W T F S S

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~~ ^{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. well organized and quite relevant

(ii) 1000+ deaths, 8 million displaced, 12500+ houses damaged

(iii) Major impact in Punjab, KP, Sindh, Gilgit-Baltistan.

(iv) Highlights climate change link + governance gaps.

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

Date: _____

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B.

Resource ~~implementation~~
constraints

C.

Climate ~~unpredictability~~

VIII

Way

~~Forward~~

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