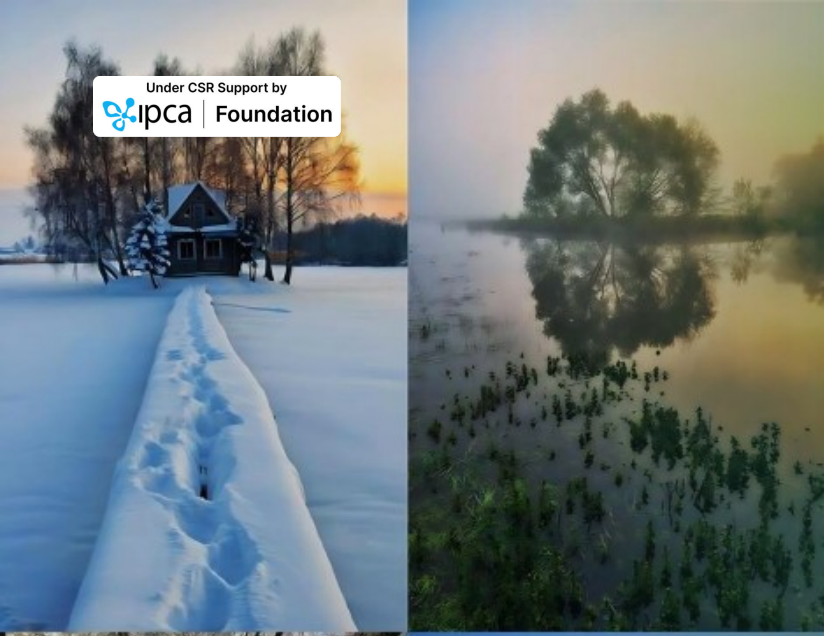




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CLASS – 7

SOCIAL SCIENCE

Exploring Society : India and Beyond

CH –3 : Climates of India

Part – 7

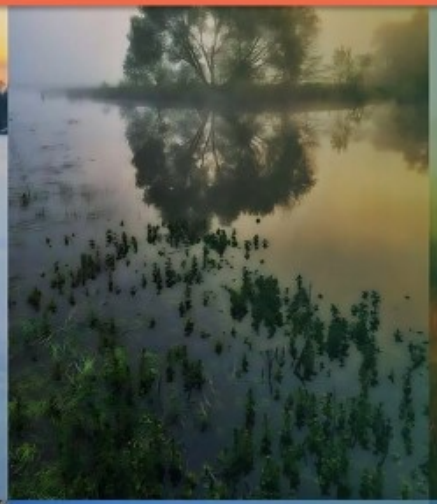
Flood

Sukhdeep Kaur

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OVERVIEW

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1. Weather, Seasons and the Climate
2. Types of Climates in India
3. Factors Determining the Climate
4. The Monsoons
5. Climate and our Lives
6. Climates and Disasters
7. Climate Change

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FLOOD

- A flood happens when water overflows onto normally dry land.
- **Causes of flooding include**
  - Heavy rainfall creating run-off water that the land cannot absorb.

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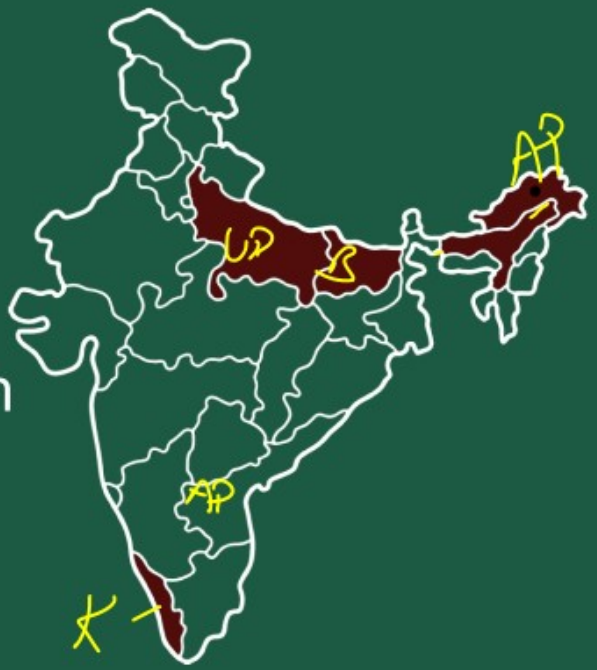
- Excessive accumulation of water in rivers or lakes, leading to–
  - Overflowing
  - Breaching of banks



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- Floods are common during the monsoon season.
- Flood-prone states in India include–
  - Uttar Pradesh
  - Bihar
  - Kerala
  - Andhra Pradesh
  - Assam.



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- In the Himalayan regions, floods occur when glacial lakes overflow.
- Glacial lakes are formed by a barrier of rocks and ice holding water.
- The water in these lakes mainly comes from melting glaciers.

Glaciers

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- Causes of overflow:
  - Rapid glacier melting (increasingly common).
  - Excessive rainfall.



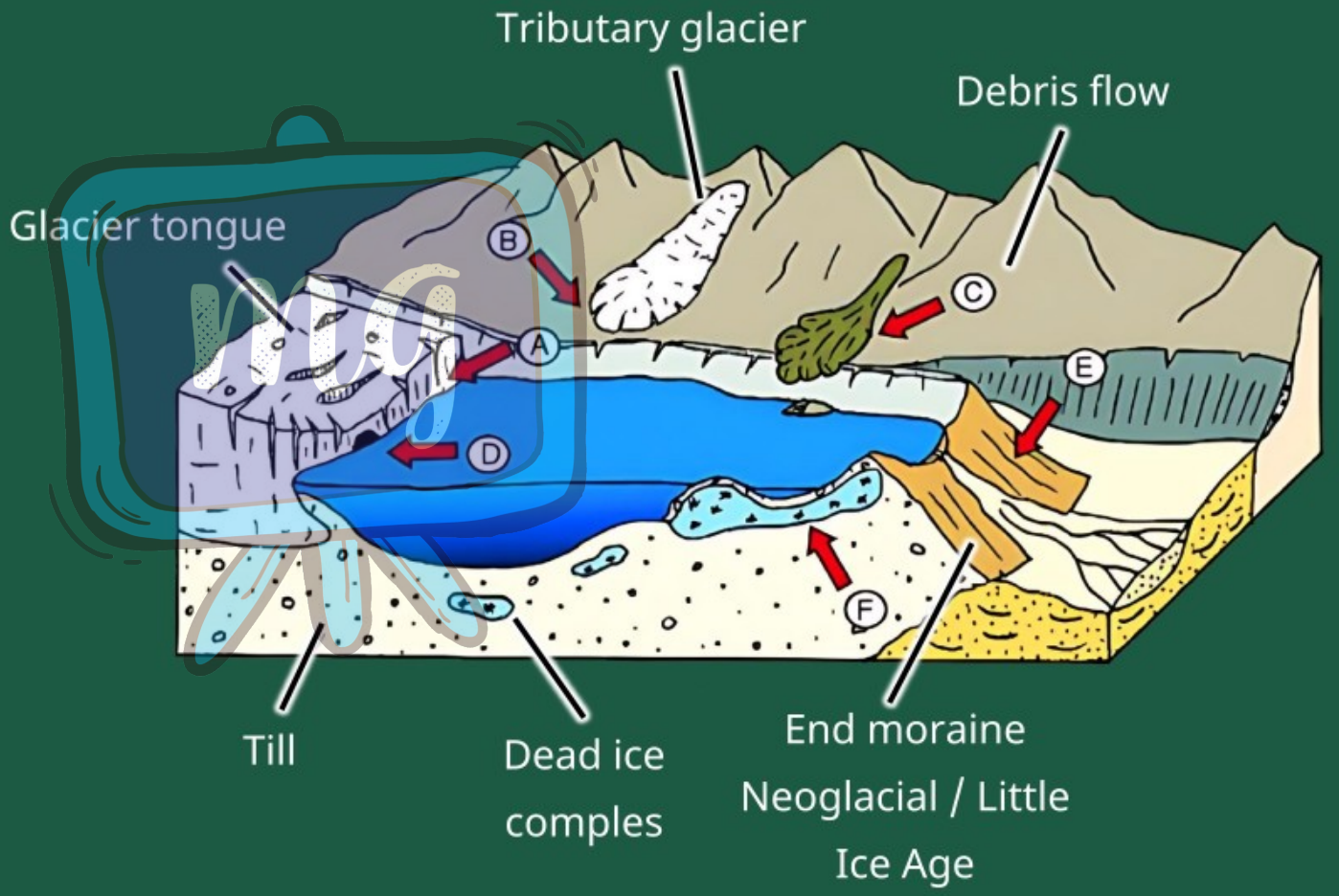
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- Pressure builds up in the lake and may cause the water to break through the barrier.
- This event is called a glacial burst.
- Glacial bursts often cause devastating damage to people and property.
- Many cities experience flooding during heavy rainfall.

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☛ Causes include

- ✧ Overburdened drainage systems.
- ✧ Poorly planned construction that encroaches on waterways, blocking water flow.
- ✧ Urban surfaces like concrete and asphalt prevent water absorption by the soil.
- ✧ These factors contribute to urban flooding.

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DON'T MISS OUT

- In 2013, Uttarakhand experienced a sudden glacial burst.
- This was caused by continuous heavy rain over several days.
- The glacial burst triggered many landslides.

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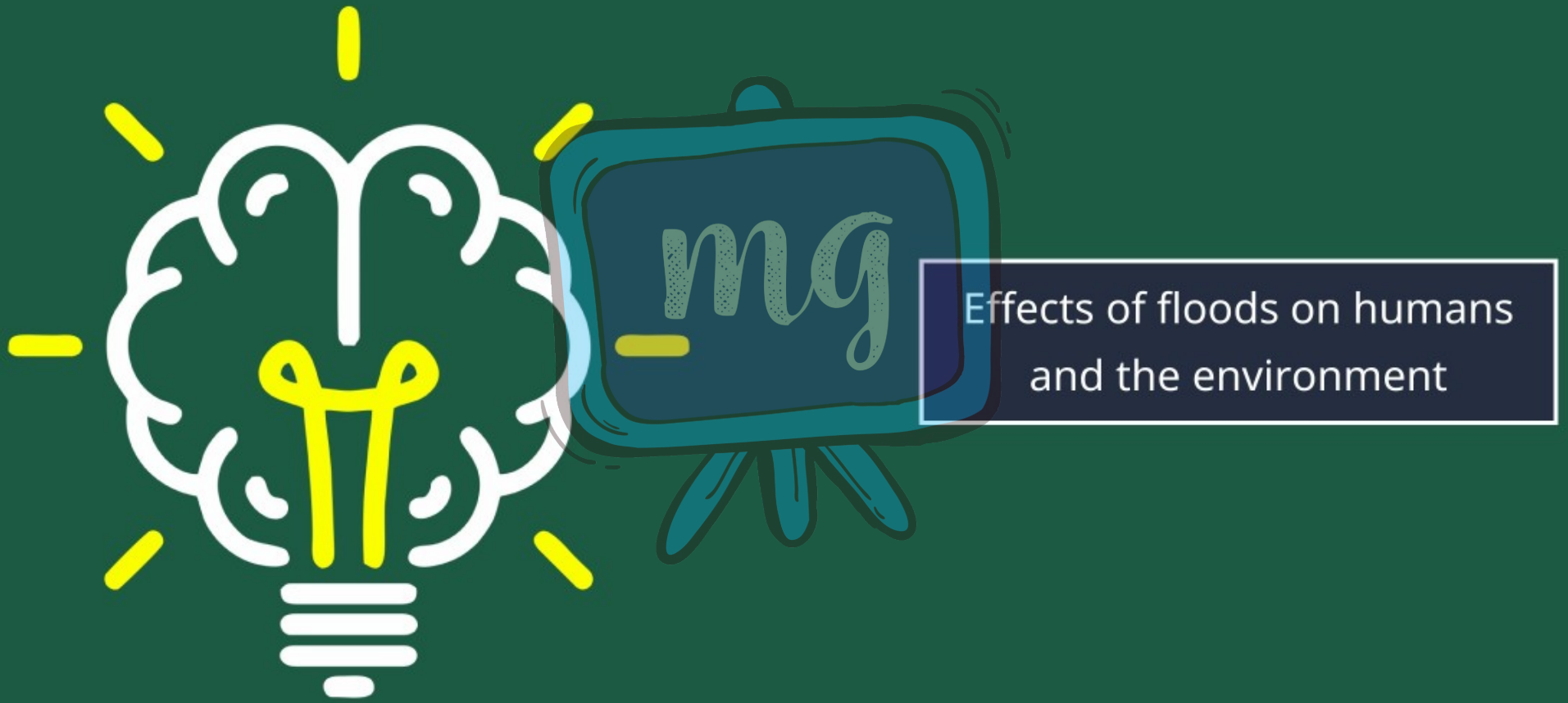
DON'T MISS OUT

- Areas around the Kedarnath temple, an important sacred site, were completely destroyed.
- Several villages, roads, and bridges were washed away in the floods.
- Approximately 6,000 people, many of them pilgrims, lost their lives.

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LEARNING OUTCOME

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ASSESSMENT

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1 What commonly causes urban flooding in cities?

A Forest loss

B Rivers freezing

C Poor drainage systems and blocked water flow

D Pollution from factories



2 What happened in Uttarakhand in 2013?

A A large earthquake

B A forest fire

C A glacial burst and massive flooding

D A volcanic eruption