

UPDAAN

2025

Water Resources

Geography

Lecture – 01

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Topics

to be covered

- 1 Water Resources
- 2 Water Scarcity
- 3
- 4



This One For Udaanians ! From Pool Bhai



QUESTION



Which of the following water can be used for drinking ?

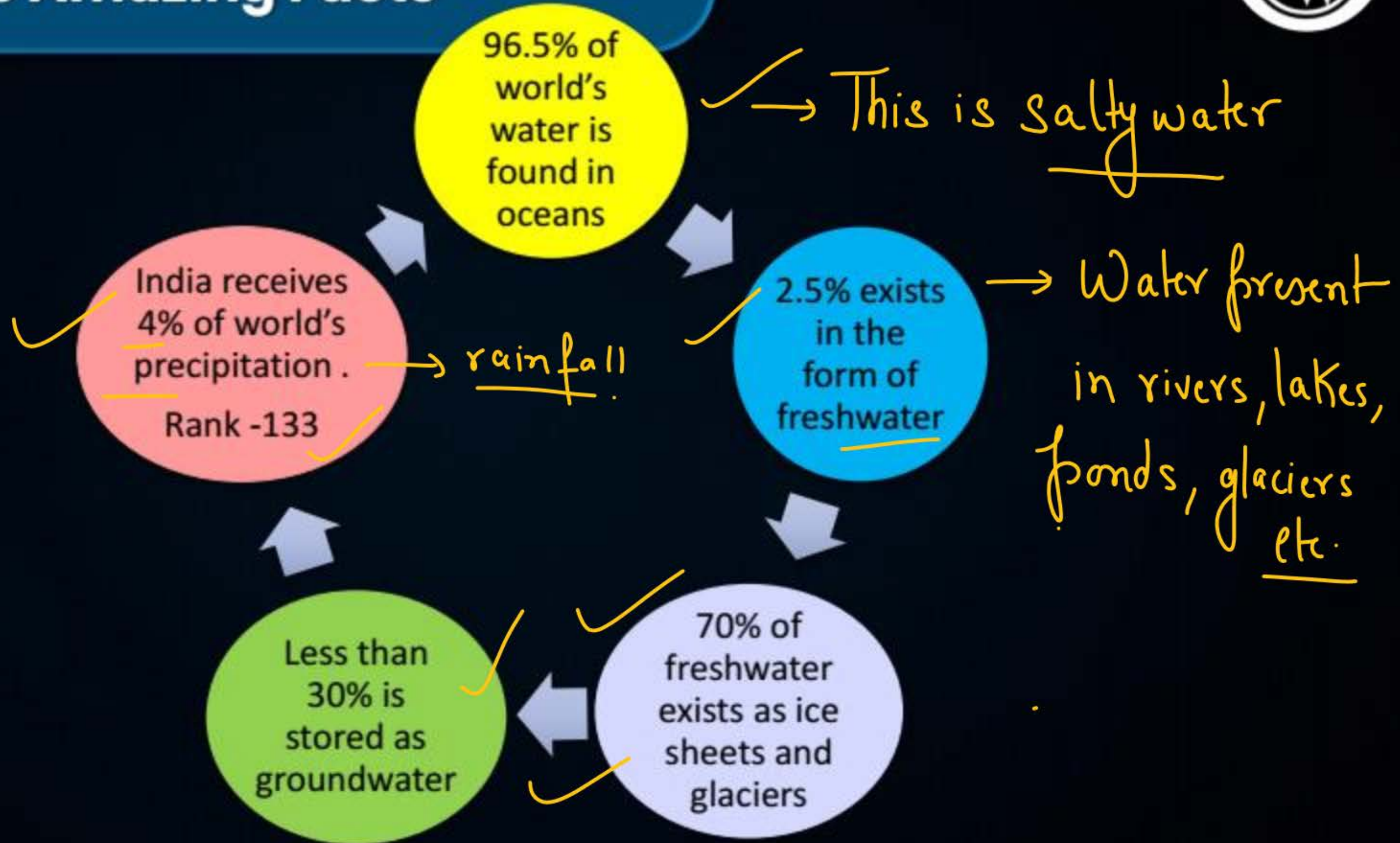
- A** Sea Water
- B** Ocean Water
- C** Water in polluted pond
- D** Potable Water



SAVE WATER ! SAVE LIFE !



Some Amazing Facts





Water → It is a renewable resource



Water gets recharged through
the hydrological cycle (water cycle)

Scary Fact

→ It is predicted that by 2025 → 2 billion people
will be facing water scarcity.

Ques.

India receives _____ of the world's precipitation

(a) 10.1.

~~(b) 4.1.~~

(c) 14.1.

(d) 24.1.

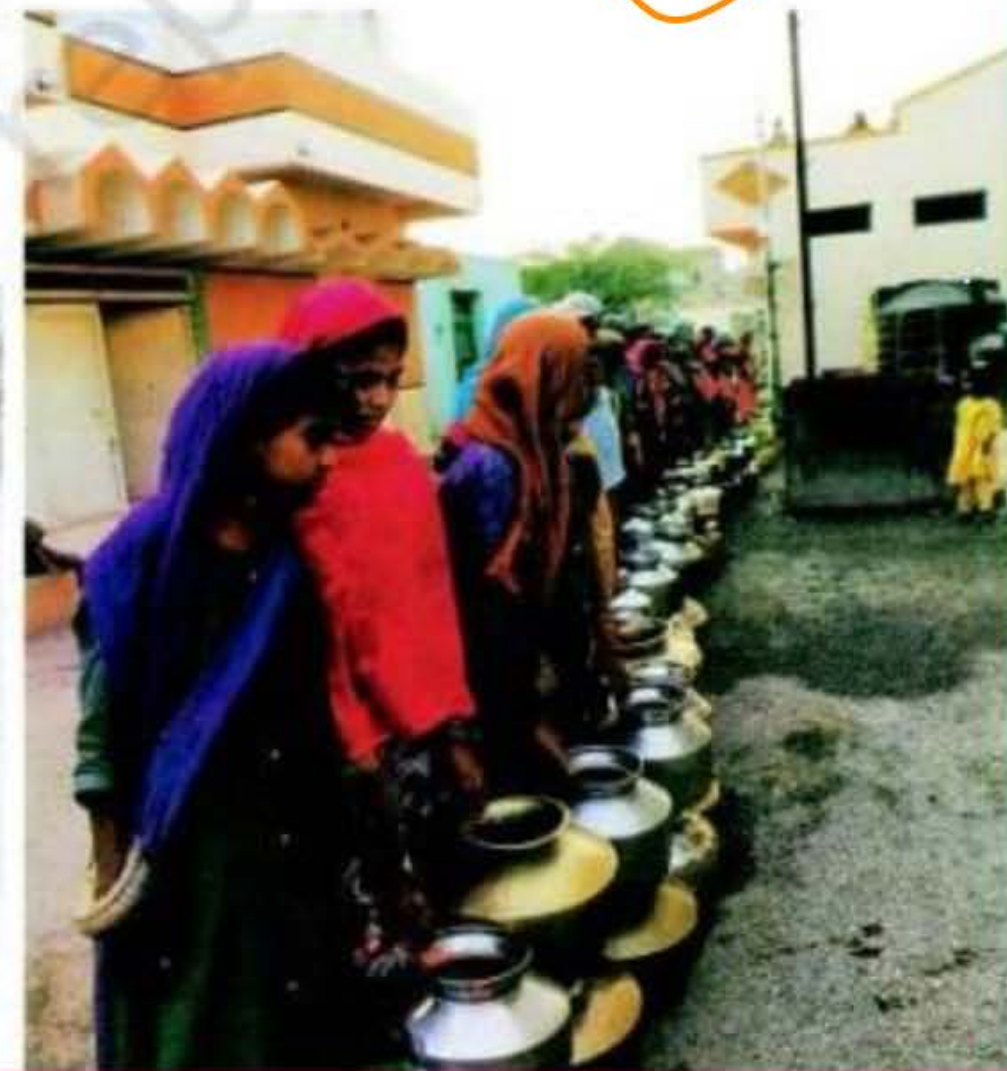


Water, Water Everywhere, Not a Drop to Drink:
After a heavy downpour, a boy collects drinking water in Kolkata. Life in the city and its adjacent districts was paralysed as incessant overnight rain, meaning a record 180 mm, flooded vast area and disrupted traffic.



A Kashmiri earthquake survivor carries water in the snow in a devastated village.

एक ओर इजराइल जैसे 25 सेमी. औसत वार्षिक वर्षा वाले देश में जल का कोई अभाव नहीं है तो दूसरी ओर 114 सेमी. औसत वार्षिक वर्षा वाले हमारे देश में प्रति वर्ष किसी भाग में सुखा अवश्य पड़ता है। देश में जल की उपलब्धता और उसके स्वरूप के अनुसार समुचित जलप्रबंधन न होने के कारण ही वर्षा का जल नदी-नालों में तेजी से बहकर समुद्र में खला जाता है जिससे वर्षा के बाद के लगभग नौ महीने देश के लिए पानी की कमी के होते हैं। ये ही मूल कारण हैं देश में जलीय अभाव के, जिसे हम उचित प्रबंधन के द्वारा ही नियंत्रित कर सकते हैं।





Water Scarcity Sunke Yah
Wala Situation Imagine Kar
Raha Tha Na Vro ..

gmp

→ The amount of rainfall received varies with respect to place and time



Reason?



Depends on seasonal and annual precipitation
(rainfall).



Water Scarcity



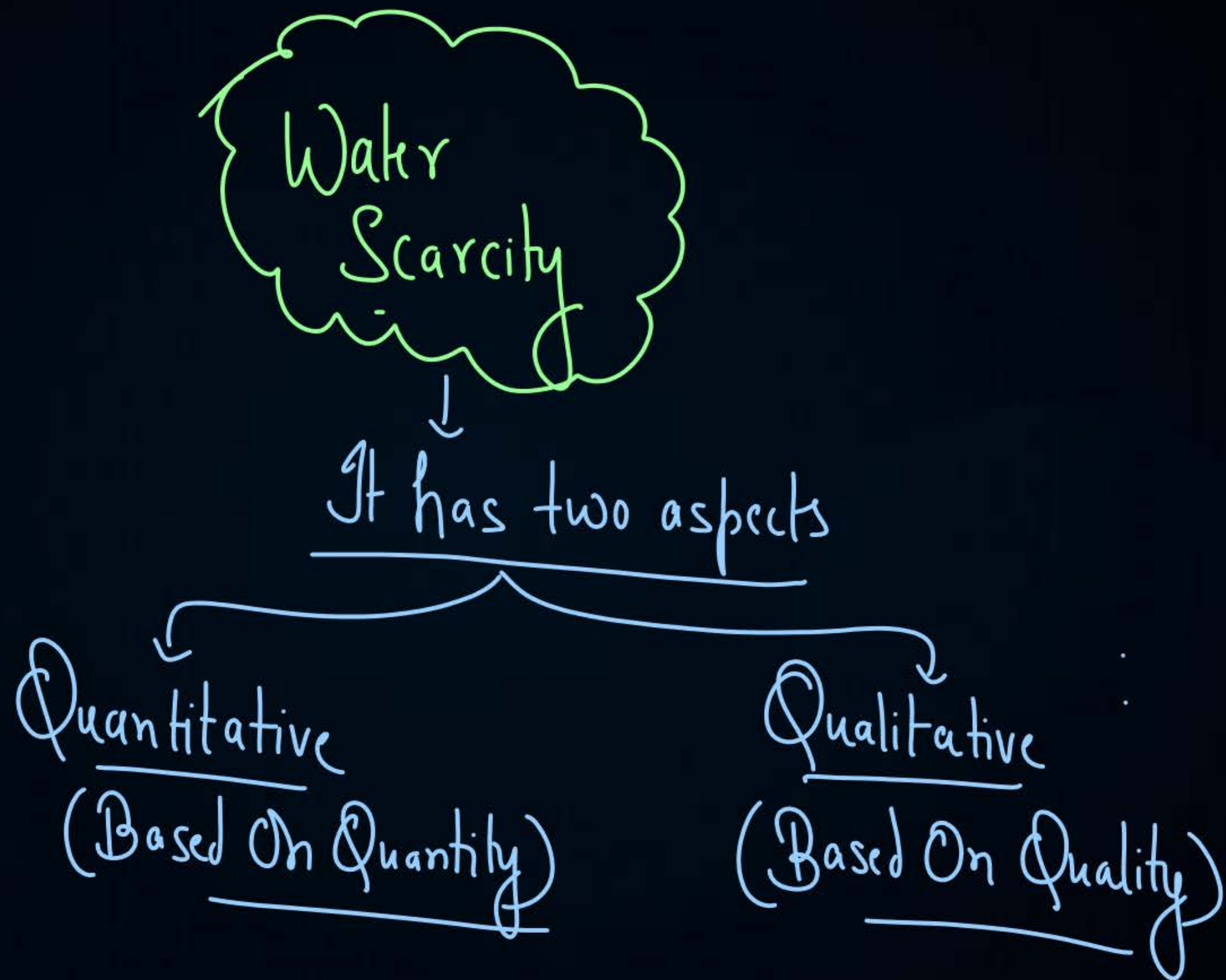
① A Situation where enough water is not available to meet the demands of the people

② Water may not be available

due

(a) Poor
Quality

(b) Less
Quantity



P4Q

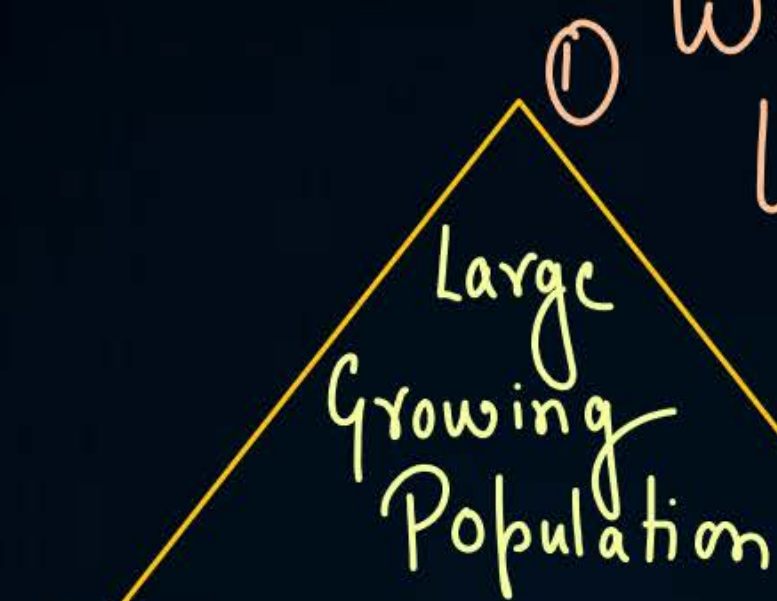


"Water Scarcity may be caused due to Qualitative and Quantitative aspects" Discuss (3/5)

Quantitative Aspect → Water Scarcity

- ① Large Growing Population.
- ② Industrialisation and Urbanisation
- ③ Increased Domestic Use

① Water scarcity may be caused due to large growing population.



② So to facilitate higher grain production (support)

↓
Water resources are being overused to expand irrigated areas for dry season agriculture

A large population needs water for domestic purposes and for growing crops

④ Irrigated agriculture
↓
Largest consumer of
Water

⑤ Solutions
→ Revolutionise the agriculture
→ Develop drought resistant crops
→ Practise Dry farming techniques

⑥ Farmers use tubewells on farms → for irrigation

↓
This puts a pressure on groundwater resources → [Result → decline in groundwater levels]

⑦ Also, it can effect the water availability and food security of the people

Ques

_____ is the largest consumer of water

(a) Irrigated agriculture

(b) Only cities

(c) Only Rural Areas

(d) None

Interesting Fact



22.1% of power needs of
India → comes from hydroelectric
power

Ques

_____ is one of the major causes for decline in groundwater levels in rural areas.

- (a) Scientific Method of Irrigation
- (b) Drip irrigation
- ✓ (c) Tubewell Irrigation
- (d) All



Homework



↳ Explain how a large growing population has caused pressure on water resources? (3)



THANK
YOU

