



Human Impact On Water Cycle

1. Identify the human activity and write its impact ('increases'/'decreases') on the water cycle

A.  Activity: _____

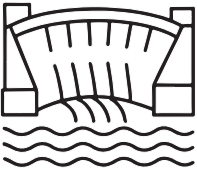
Impact on ↓ _____

- Transpiration: _____
- Precipitation: _____

C.  Activity: _____

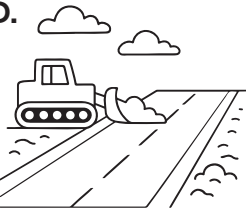
Impact on ↓ _____

- Transpiration: _____
- Precipitation: _____

B.  Activity: _____

Impact on ↓ _____

- Transpiration: _____
- Evaporation: _____

D.  Activity: _____

Impact on ↓ _____

- Transpiration: _____
- Ground water: _____

2. Match human actions with their immediate effects to show the impact on the water cycle

Human Action	Effect
A. Over-pumping groundwater	1. Leads to increased surface runoff
B. Using fertilizers	2. Pollutes rivers and lakes
C. Removing wetlands	3. Reduces underground water table
D. Building large dams	4. Releases gases that affect rainfall patterns
E. Burning of fossil fuels	5. Alters river flow and natural flooding patterns

3. Match the events in the correct order to show the effect of global warming on the water cycle

Global warming	● →	1
Decrease in surface water	●	2
Rising sea level & flooding	●	3
Melting of glaciers & ice caps	●	4
Increase in temperature	●	5

Answers

1.

A.



Activity: Deforestation

Impact on ↓

- Transpiration: Decreases
- Precipitation: Decreases

C.

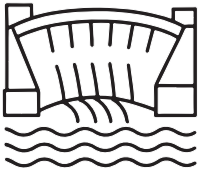


Activity: Burning of fossil fuel

Impact on ↓

- Transpiration: Increases
- Precipitation: Increases

B.

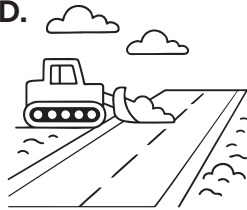


Activity: Building of dams

Impact on ↓

- Transpiration: Decreases
- Evaporation: Increases

D.



Activity: Building concrete roads

Impact on ↓

- Transpiration: Decreases
- Ground water: Decreases

2.

Human Action

A. Over-pumping groundwater

B. Using fertilizers

C. Removing wetlands

D. Building large dams

E. Burning of fossil fuels

Effect on Water Cycle

1. Leads to increased surface runoff

2. Pollutes rivers and lakes

3. Reduces underground water table

4. Releases gases that affect rainfall patterns

5. Alters river flow and natural flooding patterns

3.

Global warming

Decrease in surface water

Rising sea level & flooding

Melting of glaciers & ice caps

Increase in temperature

1

2

3

4

5