

Geography Worksheet

Grade: 7

Natural Resources

Section A: Multiple Choice Questions (MCQs)

1. Which of these is a **non-renewable** source of water?
 - a) Groundwater from aquifers
 - b) Rainwater
 - c) River water
 - d) Melted snow
2. The **Indus Water Treaty** was signed in 1960 between Pakistan and:
 - a) Afghanistan
 - b) China
 - c) India
 - d) Iran
3. **Waterlogging** is caused primarily due to:
 - a) Lack of rainfall
 - b) Overuse of fertilizers
 - c) Poor drainage and excessive irrigation
 - d) Soil erosion
4. **Siltation** in reservoirs leads to:
 - a) More storage capacity
 - b) Reduced dam efficiency and water storage
 - c) Clean water flow
 - d) Increased groundwater levels
5. Which traditional irrigation method uses an underground channel system?
 - a) Tube wells
 - b) Charsa
 - c) Karez
 - d) Sprinkler
6. Which of the following is a traditional irrigation method that involves a mechanical device to lift water from a well?
 - a) Shaduf
 - b) Drip irrigation
 - c) Persian Wheel
 - d) Sprinkler irrigation

7. The Karez system is primarily used for:
 - a) Lifting water from deep wells
 - b) Irrigating desert regions by utilizing underground water
 - c) Providing drinking water to urban areas
 - d) Flood irrigation

8. Which of the following is a modern irrigation system that uses a network of pipes to spray water over crops?
 - a) Charsa
 - b) Sprinkler irrigation
 - c) Persian wheel
 - d) Shaduf

9. Inundation irrigation involves:
 - a) Using sprinklers to spray water over plants
 - b) Flooding the entire field with water from rivers or canals
 - c) Drip feeding water directly to the roots of plants
 - d) Using underground channels to carry water to crops

10. Which of the following is a **characteristic of perennial canals**?
 - a) They carry water only during the rainy season
 - b) They are used to irrigate crops in dry regions
 - c) They provide a constant supply of water throughout the year
 - d) They use rainwater stored in reservoirs

Section B: Fill in the Blanks

1. The _____ irrigation system uses underground water tunnels to transport water in arid regions.

2. _____ is the process of fine soil and sand collecting in reservoirs, reducing storage space.

3. The _____ Dam, built on the Indus River, is Pakistan's largest earth-filled dam.

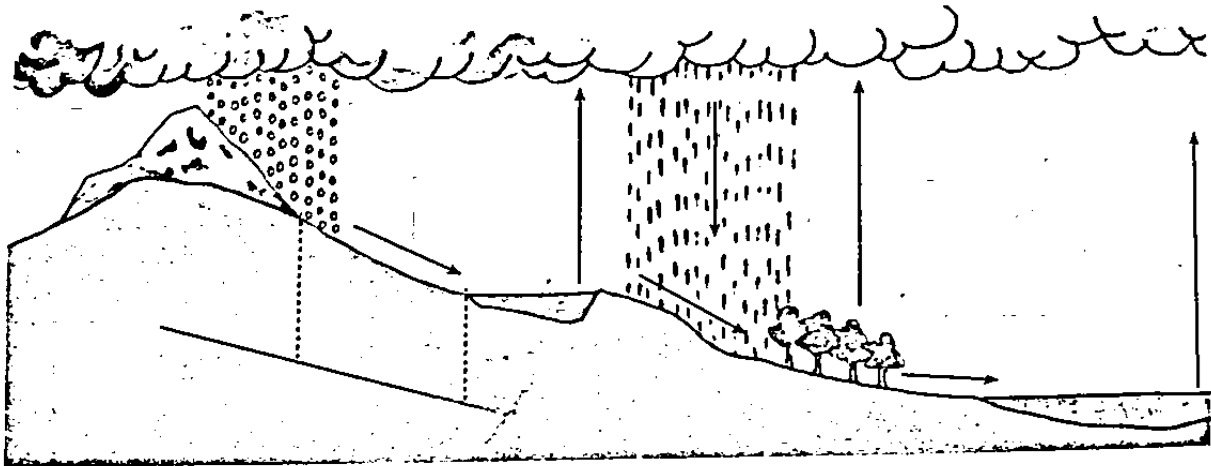
4. _____ and **salinity** occur when excess water raises the water table, causing salts to rise to the surface and reduce soil fertility.

5. The _____ irrigation method sprays water over crops using pipes and nozzles, helping conserve water.

Section C: True or False

1. **Mangla and Tarbela** are Pakistan's two major dams used for water storage and electricity generation.
(True / False)
2. **The Indus Water Treaty** gives Pakistan full rights over the three eastern rivers.
(True / False)
3. **Charsa** and **Shaduf** are examples of modern irrigation systems.
(True / False)
4. **Waterlogging** improves crop production by keeping soil moist year-round.
(True / False)
5. **Perennial canals** flow with water only during the monsoon season.
(True / False)

Section D: Label the diagram



Section E: Write a one-word or phrase answer.

1. Name one method of **modern irrigation**: _____
2. Which **natural resource** is essential for agriculture and industry? _____
3. What is the main **cause** of salinity in soils? _____
4. Name one **reservoir** suffering from siltation in Pakistan: _____
5. What is the main **purpose** of tube wells? _____

Section F: Short Answer

1. Explain how the Charsa and Persian Wheel work to lift water for irrigation. How are these methods different from modern irrigation systems?
2. What are perennial canals, and why are they important for irrigation in regions with irregular rainfall?
3. Describe the Karez system and explain its role in water distribution in dry regions.
4. What is the impact of using tube wells for irrigation, especially concerning groundwater depletion?
5. Explain the benefits and drawbacks of using sprinkler irrigation compared to traditional methods like inundation irrigation.

Match Terms to Definitions

Term	Options	Definition
Waterlogging		a) Loss of dam capacity due to deposited soil and debris
Karez System		b) Water saturation in soil that reduces oxygen for roots
Siltation		c) Traditional underground water supply method in dry areas
Perennial Canal		d) Water source that flows throughout the year
Salinity		e) Presence of salt in soil making it unfit for crops