

# NTSE

NCERT Solutions for Class 10 Social Science  
GEOGRAPHY – Water Resources



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**1. What is bamboo drip irrigation? Mention any two features of it.**

**Ans.** It is an indigenous method of tapping stream and spring water by using bamboo pipes to irrigate plantations.

(i) These are 200 years old systems of irrigation mostly practiced in Meghalaya.

(ii) This method saves water and fertilizer by allowing water to drip slowly to the roots of plants

(iii) It drips 20 to 30 drops of water per minute at the root of the plant.

**2. Give some interesting facts about water.**

**Ans.**

- 96.5 per cent of the total volume of world's water is estimated to exist as oceans and only 2.5 per cent as freshwater. Nearly 70 per cent of this freshwater occurs as ice sheets and glaciers in Antarctica, Greenland and the mountainous regions of the world, while a little less than 30 per cent is stored as groundwater in the world's aquifers.
- India receives nearly 4 per cent of the global precipitation and ranks 133 in the world in terms of water availability per person per annum.
- The total renewable water resources of India are estimated at 1,897 sq km per annum.
- By 2025, it is predicted that large parts of India will join countries or regions having absolute water scarcity.

**3. What were the hydraulic structures in Ancient India?**

**Ans.**

- In the first century B.C., Sringaverapura near Allahabad had a sophisticated water harvesting system channeling the flood water of the river Ganga.
- During the time of Chandragupta Maurya, dams, lakes and irrigation systems were extensively built.
- Evidence of sophisticated irrigation works have also been found in Kalinga, (Orissa), Nagarjunakonda (Andhra Pradesh), Bennur (Karnataka), Kolhapur (Maharashtra), etc.
- In the 11th Century, Bhopal Lake, one of the largest artificial lakes of its time was built.
- In the 14th Century, the tank in Hauz Khas, Delhi was constructed by Iltutmish for supplying water to Siri Fort area.

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**4. Why is it necessary to conserve water resources? Give reasons.**

**Ans. (i) Scarcity of water:** Due to high population, increasing urbanization and rising standard of living, there is a growing scarcity of water felt all over India.

**(ii) Use of degraded water:** In many areas, people are forced to drink and use polluted water which causes various water borne diseases.

**(iii) Lowering the water table:** Increased use of tube wells in recent years has lowered the water table and has caused depletion of underground water resources.

**(iv) Inadequate supply of water for irrigation:** Large part of the cropped area in India is still rainfed, which is uncertain and irregular which affects agriculture.

**5. Why do the dams in India come under great scrutiny and opposition?**

**Ans. (i)** Regulating and damming of river water affects natural flow of water causing poor sediment flow and excessive sedimentation at the bottom of the reservoirs, resulting in rockier stream beds and poorer habitat for the river's aquatic life.

**(ii)** Dams prevent the migration and spawning of aquatic fauna.

**(iii)** Construction of dams leads to submergence of land and vegetation leading to its decomposition over a period of time.

**(iv)** It leads to loss of livelihood to many tribal and village people and find it difficult to rehabilitate them.

**(v)** Dams did create conflicts between people wanting different uses and benefits from the same water. In Gujarat the Sabarmati-basin farmers agitated against the higher priority given to water supply in urban areas particularly during drought.

**(vi)** Inter-state dispute also becoming common over sharing the cost and benefit of multipurpose river valley projects.

## MULTIPLE CHOICE QUESTIONS

1. Who proudly proclaimed the dams as the temples of modern India?

(A) Mahatma Gandhi (B) Jawaharlal Nehru (C) Indira Gandhi (D) Dr. Abdul Kalam

Ans: (B)

2. The tehri dam is being constructed on the river .....

(A) Ganga (B) Yamuna (C) Bhagirathi (D) Satluj

Ans: (C)

3. Hirakud dam is on the river .....

(A) Satluj (B) Mahanadi (C) Narmada (D) Krishna

Ans: (B)

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*M. Pareek*

An  
**NTSE Scholar**  
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4. Bhakra Nangal multipurpose project is constructed on the river .....

- (A) Satluj (B) Tungabhadra  
(C) Damodar (D) Mahanadi

Ans: (A)

5. Sardar Sarovar Project is associated with which of the following rivers?

- (A) Narmada (B) Mahanadi  
(C) Betwa (D) Tapi

Ans: (A)

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