

ii) Give reasons why traditional means of irrigation are still important in most parts of India.

ans. Traditional means of irrigation are still important in most parts of India because they are cheap and simple and easy to operate.

c) i) Differentiate between surface water and ground water

Surface water

Ground water

Water on the Earth's surface, such as in a stream, lakes, rivers or reservoir.

Water beneath the surface of the Earth which saturates the pores and fractures.

ii) Mention two reasons why are we facing water scarcity in recent times.

ans. We are facing water scarcity in recent times because of:

1. Growing population
2. High demand for food grain production

4a) "The modern means of irrigation are gaining popularity." Give two reasons to justify this statement.

ans. There is no soil erosion.  
This method conserves water.

b) Mention two factors that favour the development of tube wells irrigation in Punjab.

ans. Two factors that favour the development of tube wells irrigation in Punjab are:

1. The water table is high
2. The alluvial soil makes it easy to dig wells

c) Give a reason for each of the following

i) Most of the South Indian states are not suitable for development of canal irrigation.

ans. Most of the rivers are non-perennial and dry up in summer. Therefore, they cannot supply water to canal throughout the year.

ii) There is an urgent need for water conservation in India.

ans. There is an urgent need for water conservation in India because of increase in population.

iii) Development of irrigation is essential for the growth of the agriculture sector of India.

ans. Development of irrigation is essential for the growth of the agriculture as different crops require different quantities of water supply.

d) Briefly explain:

a) Inundation canal

ans. The canals which are drawn directly from the rivers without making any kind of barrage or dam at their head to regulate the flow of the river and canal.

b) Rooftop rainwater harvesting

ans. It is the technique through which rainwater is captured from the roof catchment and stored in reservoir.

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i) Give a reason for each of the following

a) Agriculture sector in India needs the support of irrigation.

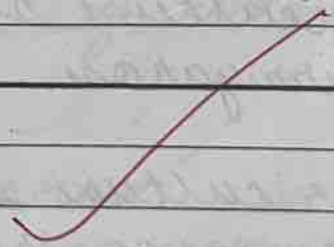
ans. Agriculture sector in India need the support of irrigation as the rain fall is uncertain and many crops need more more water.

b) Well irrigation is a popular means of irrigation in North India

ans. Well irrigation is a popular means of irrigation in North India because of high water table and the soft alluvial soil makes it easier for the to dig wells

ii) Distinguish between inundation canal and perennial canal.

| Inundation canal  | perennial canal  |
|---|--|
| They are taken out from the rivers without constructing dams, barrages or embankments | They are taken out from the rivers or reservoirs by constructing dams or barrage |



iii)

a) Where in India is J-tank irrigation most widely used?

ans. Deccan India.

b) Give one factor that has led to its popularity in the region you mentioned by you?

ans. Tank irrigation has is most widely used in the deccan region because of the undulating topography which makes it difficult to dig canals and wells.

c) Mention one factor that has led to its popularity in

c) Mention one factor advantage of using tanks as a means of irrigation.

ans. Tank ~~design~~ Tank irrigation helps to raise the underground water.

iv) a) What is Rainwater Harvesting?

ans It is a technique of increasing the recharge of groundwater by capturing rainwater and storing the them by constructing structures such as percolating pits, check-dams etc.

b) Give two ways in which Rainwater Harvesting is important for India?

ans Ways in which rainwater harvesting is important for India are:

- To meet the ever increasing demand for water
- To avoid flood groundwater pollution.

Q6) a) What is the advantage of using Drip irrigation?

ans: ~~What~~ Advantages of ~~drip~~ drip irrigation are:

- No soil erosion
- Low labour cost

Q6) b) Why is drip irrigation ~~not~~ <sup>not</sup> practiced on a large scale in India?

ans: • Need technical knowledge to run  
• Need regular supply of water.

ii) Give a reason to explain each of the following

a) ~~Sprinkler~~ irrigation is gaining popularity in recent times.

ans: ~~Sprinkler~~ irrigation is gaining popularity in recent times because there is no soil erosion and wastage of water.

b) Tube well irrigation is used in Punjab.

ans. Tube well irrigation is used in Punjab because the soft alluvial soil makes it easy to dig tube wells.

c) North India has more area under canal irrigation.

an. Canal irrigation <sup>is</sup> more popular in North India because of low relief area and flow of perennial rivers.

Q iii)

a) Name the water conservation practice shown in the above picture.

ans. Rainwater harvesting.

b) How does this system help to reduce floods?

ans. It collects rainwater and reduces runoff and flooding.

c) Why is ~~to~~ water conservation ~~now~~ necessary?

ans. To ~~not~~ avoid flooding of roads.  
• To improve the quality of ground water.

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