

Bhoomiyile Jalom

Question.1. How do the following actions affect water conservation activities?[Marks :(4)]

- a) construction of check dams**
- b) Concreting the yard**
- c) Construction of rain water**
- d) Reclamation of fields**

Ans. Construction of check dams and sewage pipes are water conservation activities because the water is returned to the ground.

Water does not go down to the ground through concrete and reclamation of paddy fields.

Question.2. Write an appropriate title for the poster to be displayed at the awareness rally against water pollution.[Marks :(1)]

Ans. To write a title that justifies the idea (1)

Question.3. What are the natural sinks of water?[Marks :(1)]

Ans. Wetlands

Question.4. Name any two activities that the school may undertake to protect natural water bodies, such as wetlands. Describe an activity.[Marks :(4)]

Ans. Wetland conservation rallies

Picture / Poster preparation

Seminars (Wetlands)

Question.5. How do hot springs and geysers evolve?[Marks :(2)]

Ans. Hot springs and geysers are formed because the water flowing down through the gaps in the earth comes in contact with the magma.

Question.6. What types of wells are used for fresh water in the following localities ?[Marks :(4)]

- a) In areas where the water table is very low**
- b) In sandy areas**
- c) In the areas where a permeable rock layer is sandwiched between two impermeable layers.**
- d) In areas where the water table is high**

Ans. a.tube wells

- b.filter wells
- c..artesian wells
- d.normal well

Question.7. Which of the following is the most permeable ?[Marks :(1)]

Clay, Sand, Rock

Ans. sand

Question.8. Classify the following sources of water sources as Surface water and Ground Water sources[Marks :(2)]

Ponds, rivers, backwaters and wells

Ans. Surface sources - rivers and backwaters

Groundwater sources - ponds and wells

Question.9. Give reason[Marks :(2)]

a) Earth is a watery planet

b) From space, the Earth looks blue

Ans. a) Because three-fourth of the earth's surface is covered with water

b). About 71% of the Earth's surface is water, so looking from space it looks like a blue planet

Question.10. Explain two methods of rainwater harvesting. [Marks :(3)]

Ans. Rooftop rainwater harvesting and surface runoff harvesting.

Question.11. What is the best way to solve the shortage of fresh water? [Marks :(1)]

Ans. Rainwater harvesting

Question.12. list any three causes for water shortage in Kerala. [Marks :(3)]

Ans. The topography of Kerala is sloping from east to west

About 70% of the rainfall received goes to the sea

deforestation, reclamation of ponds and wetlands

demolition of hills

(Any three)

Question.13. mention any four of the water conservation methods that students can take[Marks :(4)]

Ans. Re-use water

Save water sources

Protect wetlands

Do not throw waste

Waste is disposed of at the source

Reduce the use of plastic

(Any 4)

Question.14. Write any two effects of water pollution. [Marks :(2)]

Ans. Water quality will be adversely affected

The soil and air are also polluted

Question.15. The following is one of the causes of water pollution. Write any two other causes[Marks :(2)]

Waste from industrial plants

Ans. Agricultural waste (fertilizer and pesticides)

Domestic waste (soap, water and waste)

Urban waste (foodstuffs, plastic)

Any 2 numbers

Question.16. Write any two environmental problems caused by reclamation of wetlands[Marks :(2)]

Ans. The water level in the wells goes down

Even small showers can cause flooding in rivers

(For writing any other similar issues)

Question.17. [Marks :(4)]

25. match the items in column B appropriate to column A

A	B
Geyser	Filter -point wells
Sandy area	Old faithful
World Wetland Day	March 22
Swampy region	Groundwater abundance
The water table	Wetlands

Ans. Geyser- Old Faithful

Sand Area – filter-point well

World Wetlands Day - February 22nd

Swampy region- wetlands

Floodplain - The most abundant part of groundwater

Question.18. Name the level up to which there is abundant groundwater[Marks :(1)]

Ans. The water table

Question.19. What is the difference between a filter-point wells and an artesian well? [Marks :(2)]

Ans. Filter -point wells are shallow wells in sandy areas. Artesian wells are a system where the water rises due to pressure from the permeable partition between the two layers where there is no porosity.

Question.20. Elucidate the following.[Marks :(4)]

a) Porosity and permeability

b) Water procalates in the sandy areas in the paddy fields are inundate

Ans. a)There are numerous pore spaces in the soil

The pores are so close together that water can move through the pores

b) All porous materials need not have permeability.clay has high porosity but low permeability. It will not permit water to pass through.

Question.21. classify fresh water sources on earth? Give two examples for each.[Marks : (4)]

Ans. Surface water sources - oceans, rivers and lakes

Groundwater sources - Borewell, Well, Pond

Question.22. List the following water sources as surface sources and underground sources. [Marks :(3)]

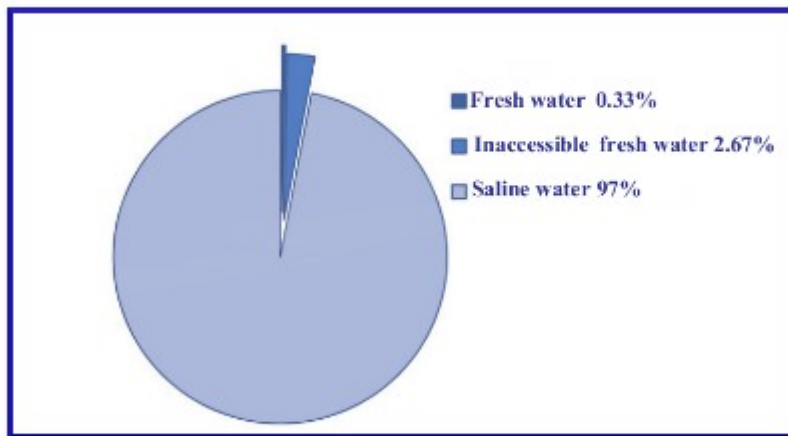
Oceans, pits, rivers, wells, ponds, lakes

Ans.

Surface sources	Underground resource
Oceans	Tube well
Rivers	Well
Lakes	Pond

Question.23. [Marks :(3)]

32. Check out the following diagram and write down three conclusions related to fresh water on Earth.



Ans. Fresh water 0.33%
Inaccessible fresh water 2.67%
Saline water 97%

Question.24. Distinguish between hot springs and geysers[Marks :(2)]

Ans. In some places, when springs are warm, it is called hot springs

The phenomenon of hot water vapour ejecting out of the earth at regular intervals

Question.25. Distinguish between Groundwater and aquifer[Marks :(2)]

Ans. Ground water is water stored below the surface of the earth

Water that percolates through the top soil will be collected in the pore spaces of the soil and gaps in the rocks. Such storage spaces are called aquifers.

Question.26. Given below are some of the qualities of rocks. Name the rocks ?[Marks :(2)]

a) soil with several pore spaces

b)As the pore spaces are interrelated it allows water to pass through.

Ans. a) Porosity

b) Permeability

Question.27. Choose the correct statements related to fresh water on earth. (2)[Marks : (2)]

a) Fresh water on earth is more

b) About 97% of the total water is saline

c) Humans have only 0.33% fresh water

d) The amount of inaccessible freshwater is 2.67%

Ans. b) About 97% of the total water is saline

c) Humans have only 0.33% fresh water

Question.28. Mention any two activities to conserve water.[Marks :(4)]

Ans. Reuse the water

Save water sources

Protect wetlands

Do not throw waste into water bodies

Sewage of waste in the sources

Reduce the use of plastic

Question.29. List any 4 methods to reduce run off and to recharge ground water [Marks : (4)]

Ans. Wetland conservation

Conservation of forests

Terrace farming

Construction of check dams

Mulching

Construction of mud walls

Digging rainwater percolation pits

(Any 4)