



### **BIOLOGY**

# BOOKS - ZEN BIOLOGY (KANNADA ENGLISH)

# SUSTAINABLE MANAGEMENT OF NATURAL RESOURCES

**Questions Section In Text Questions** 

1. What changes can you make in your habits

to becme more environment friendly

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2. a] What would be the advantages of exploiting resources with short-term aims?
b] How would these advantages differ from the advantages of using a long - term perspective in managing our resources?



**3.** What do you think there should be equitable distribution of resources? What forces would be working against an equitable distribution of our resources?

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**4.** Why should we conserve forests and wildlife?

5. Suggest some approaches towards the

conservation of forests.

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6. What changes can you make in your habits

to becme more environment friendly

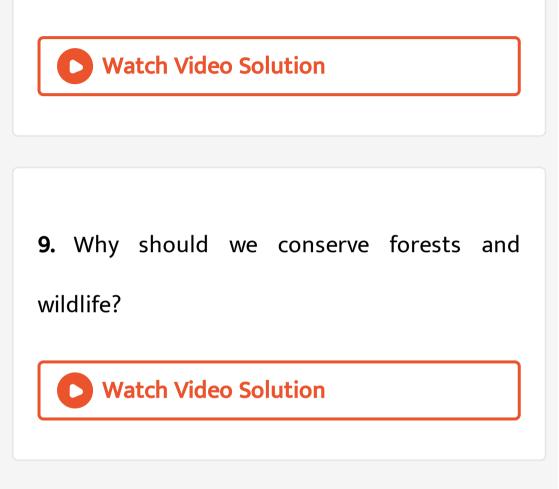
7. a] What would be the advantages of exploiting resources with short-term aims?
b] How would these advantages differ from the advantages of using a long - term perspective in managing our resources?

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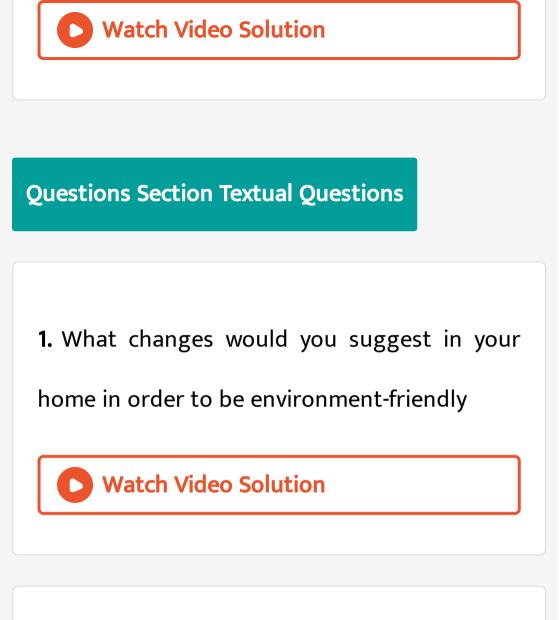
**8.** What do you think there should be equitable distribution of resources? What

forces would be working against an equitable

distribution of our resources?



**10.** Suggest some approaches towards the conservation of forests.



**2.** Can you suggest some changes in your school which would make it environment



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**3.** We saw in this chapter that there are four main stakeholders when it comes to forests and wildlife, which among these should have the authority to decide the management of forest produce? Why do you think so?



**4.** How can you as an individual contribute or make a different to the management of a) Forests and wildlife b) Water resources and c)

Coal and petroleum

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5. What can you as an individual do to reduce

your consumption of the various natural

resources

**6.** List five things you have done over the last one week to:



7. On the basis of the issues raised in this chapter, what changes would you incorporate in your life-style in a move towards a sustainable use of our resources?



8. What changes would you suggest in your home in order to be environment-friendly
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**9.** Can you suggest some changes in your school which would make it environment friendly

**10.** We saw in this chapter that there are four main stakeholders when it comes to forests and wildlife, which among these should have the authority to decide the management of forest produce? Why do you think so?

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**11.** How can you as an individual contribute or

make a different to the management of a)

Forests and wildlife b) Water resources and c)

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12. What can you as an individual do to reduce

your consumption of the various natural

resources



13. List five things you have done over the last

one week to:

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**14.** On the basis of the issues raised in this chapter, what changes would you incorporate in your life-style in a move towards a sustainable use of our resources?

**1.** The main cause for abundant coliform bacteria in the river Ganga is:

A. Disposal of unburnt corpses into water

B. Discharge of effluents from

electroplating industries

C. Washing of clothes

D. Immersion of ashes





**2.** The pH range most conducive for life of freshwater plants and animals is

A. 6.5 – 7.5

B. 2.0 – 3.5

C. 3.5 - 5.0

D. 9.0 - 10.5





**3.** The three R's that help us to conserve natural resources for long-term use are

A. recycle, regenerate, reuse

B. reduce, regenerate, reuse

C. reduce, reuse, redistribute

D. reduce, recycle, reuse

#### Answer: D



**4.** In our country, vast tracts of forests are cleared and a single species of plant is cultivated. This practice promotes

A. biodiversity in the area

B. monoculture in the area

C. growth of natural forest

#### D. preservation of the natural ecosystem in

the area

#### Answer: B



#### 5. Expand the abbreviation GAP.

A. Governmental Agency for Pollution

Control

B. Gross Assimilation by Photosynthesis

C. Ganga Action Plan

D. Governmental Agency for Animal

Protection

Answer: C

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**6.** Opposition to the construction of large dams is due to

A. Social reasons

- B. Economic reasons
- C. Environmental reasons
- D. All of the above

#### Answer: D

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**7.** Khadins, Bundhis, Ahars, and Kattas are ancient structures that are examples for

A. Grains storage

B. Wood storage

C. Water harvesting

D. Soil conservation

Answer: C

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**8.** By constructing Khadin check-dams in level terrains,

A. underground water level decreases

B. underground water level increases

C. vegetation in the nearby areas are

destroyed due to excess moisture

D. underground water gets polluted

Answer: B

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**9.** Which of the following activities are effective in preventing floods ?

- A. Removing the topsoil
- **B.** Afforestation
- C. Construction of buildings
- D. Cutting of trees

#### Answer: B

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**10.** What is the name given for increasing forests?

#### A. Sericulture

- B. Silviculture
- C. Deforestation
- D. Afforestation

#### Answer: D



#### 11. The main purpose of 'Ganga Action Plan'

(GAP) project was

A. Make its water pollution free

- B. Build new dams over the Ganga river
- C. Utilise the river water for irrigation

purposes

D. Promote the growth of water animals

like fish, in the river

Answer: A

**12.** Which of the following communities in Rajasthan has a religious practice of conservation of forest and wildlife?

A. Jain

B. Bishnoi

C. Jaishwal

D. Agarwal

Answer: B

**13.** The motive behind 'Narmada bachao andolan' was to

A. Clean narmada river

B. Control floods caused by narmada river

C. Save narmada river

D. None of above

Answer: C

14. Which of the following is a traditional method of water harvesting in Madhya Pradesh?

A. Bundhis

B. Bandharas

C. Khatris

D. Kulhs

Answer: C

**15.** Kulh is a type of

#### A. Dam

B. Lake

C. Canal

D. Well

Answer: A



**16.** Which of the following indicates the contamination of river water?

A. Presence of algae in river water

B. Presence of chlorine in water

C. Presence of coliform bacteria in river

water

D. Existence of diverse life forms in river

water







- 17. Coliform refers to a
  - A. Part of intestine
  - B. Group of bacteria
  - C. Group of fungus
  - D. Group of viruses

#### Answer: B

**18.** 'Chipko and alon' was started by

A. Sundar lal Bahuguna

B. Amrita devi bisni

C. A. K. Banerjee

D. Gaura devi

Answer: A

19. Which of the following is best method to

save our resources?

A. Reduce

B. Recycle

C. Reuse

D. All of above

Answer: D

20. Water harvesting is practiced in order to

A. Increase ground water level

B. Decrease ground water level

C. Preserve wildlife

D. Conserve forests

Answer: A

**21.** The main cause for abundant coliform bacteria in the river Ganga is:

A. Disposal of unburnt corpses into water

B. Discharge of effluents from

electroplating industries

C. Washing of clothes

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Answer: A



**22.** The pH range most conducive for life of freshwater plants and animals is

- A. 6.5 7.5
- B. 2.0 3.5
- C. 3.5 5.0
- D. 9.0 10.5

### Answer: A



**23.** The three R's that help us to conserve natural resources for long-term use are

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D. reduce, recycle, reuse

#### Answer: D

**24.** In our country, vast tracts of forests are cleared and a single species of plant is cultivated. This practice promotes

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Answer: B

**25.** Expand the abbreviation GAP.

A. Governmental Agency for Pollution Control

B. Gross Assimilation by Photosynthesis

C. Ganga Action Plan

D. Governmental Agency for Animal

Protection







26. Opposition to the construction of large

dams is due to

A. Social reasons

B. Economic reasons

C. Environmental reasons

D. All of the above

Answer: D

**27.** Khadins, Bundhis, Ahars, and Kattas are ancient structures that are examples for

A. Grains storage

B. Wood storage

C. Water harvesting

D. Soil conservation

### Answer: C

**28.** By constructing Khadin check-dams in level terrains,

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Answer: B

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**31.** The main purpose of 'Ganga Action Plan' (GAP) project was

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### Answer: A

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## Answer: C

**34.** Which of the following is a traditional method of water harvesting in Madhya Pradesh?

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C. Khatris

D. Kulhs

Answer: C

35. Kulh is a type of

A. Dam

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C. Canal

D. Well

**Answer: A** 

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C. Presence of coliform bacteria in river

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D. Existence of diverse life forms in river

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Answer: C



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- C. A. K. Banerjee
- D. Gaura devi

Answer: A



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save our resources?

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C. Reuse

D. All of above

Answer: D

40. Water harvesting is practiced in order to

A. Increase ground water level

B. Decrease ground water level

C. Preserve wildlife

D. Conserve forests

Answer: A

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Zee Additional Questions Sections Very Short Answer Vsa Type Questions **1.** Name the elements present in coal and petroleum in addition to carbon.

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2. What important message is conveyed by the

Amrita Devi Bishnoi Award for wildlife

conservation?

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**3.** "Fossil fuels contribute to the global warming." List two reasons to justify this statement.



4. "Reuse is better than recycling." List two

reasons to justify the statement.



5. Name any four main elements present in

coal and biogas.

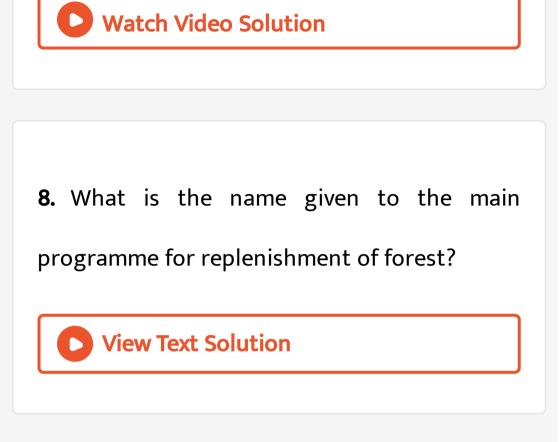
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6. How can wearing an extra sweater in winters

be an environmentally friendly step?



7. Name any two things that can be reused.



**9.** What is 'Narmada Bachao Andolan?

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10. What are the causes of over-exploitation of

natural resources?

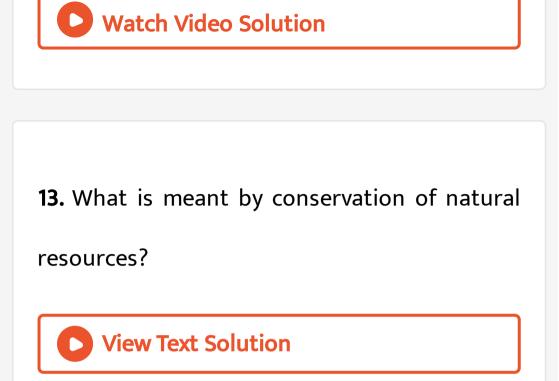
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11. Name three ways by which natural

resources may last longer.



**12.** Name two exhaustible natural resources.



**14.** What is coal?



15. What is meant by petroleum? What does it

contain?

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**16.** Give two uses of coal.

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**17.** What is considered to be a 'biodiversity hotspot'?



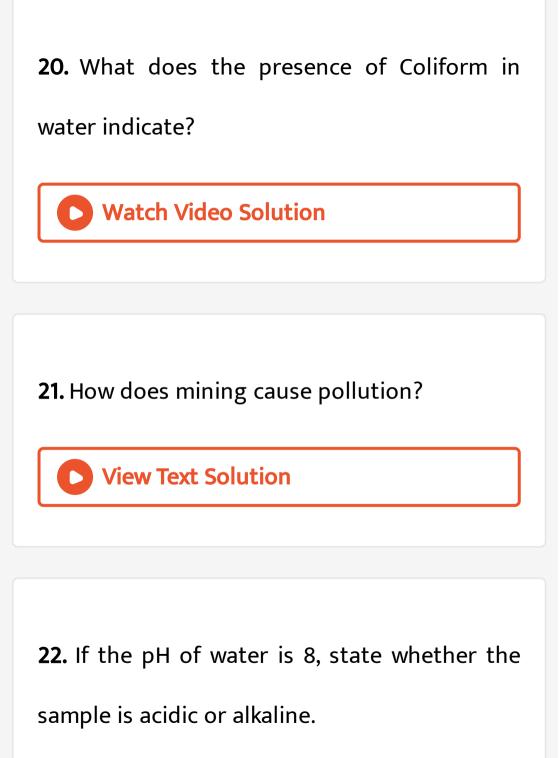
## 18. What consequences can occur if

biodiversity of an area is not preserved?

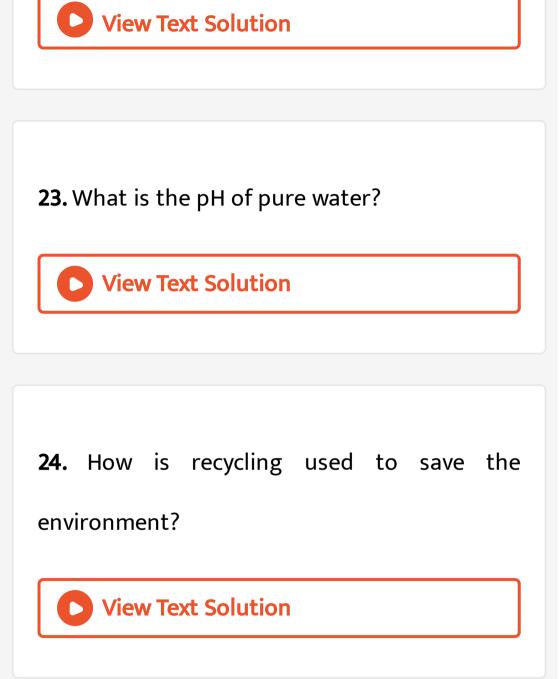
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# **19.** What is Coliform?

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25. What is the Amrita Devi Bishnoi National

Award?

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**26.** Name the elements present in coal and

petroleum in addition to carbon.

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**28.** "Fossil fuels contribute to the global warming." List two reasons to justify this statement.



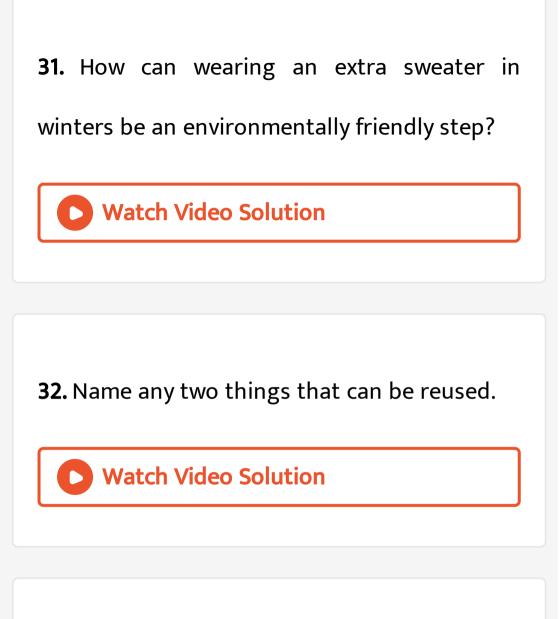
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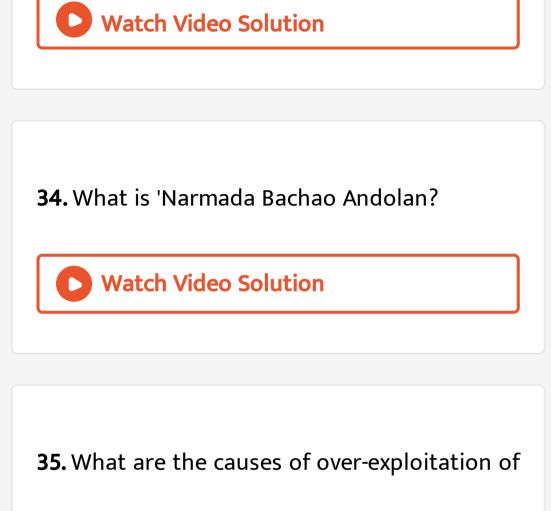


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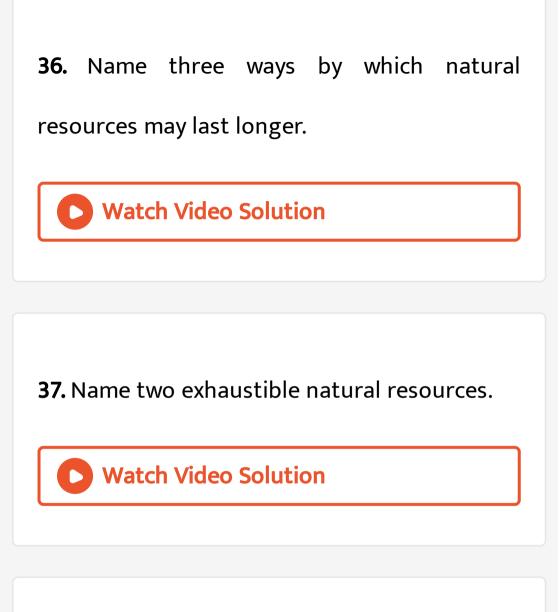
coal and biogas.



**33.** What is the name given to the main programme for replenishment of forest?

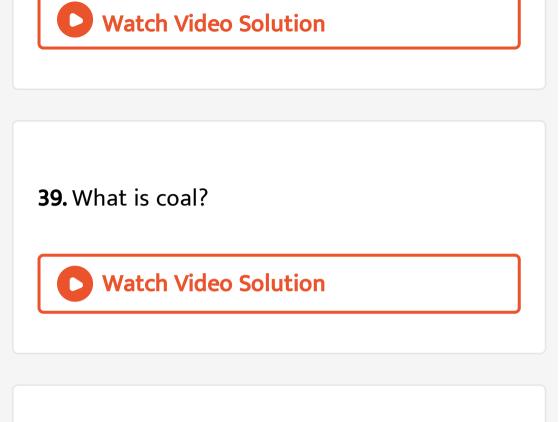


natural resources?



38. What is meant by conservation of natural

resources?



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contain?

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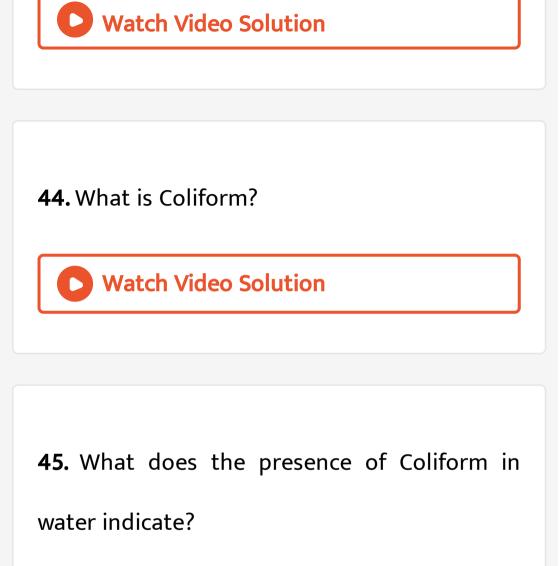


## 42. What is considered to be a 'biodiversity

hotspot'?

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**43.** What consequences can occur if biodiversity of an area is not preserved?



**46.** How does mining lead to pollution ?



47. If the pH of water is 8, state whether the

sample is acidic or alkaline.

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**48.** What is the pH of pure water?

**View Text Solution** 

**49.** How is recycling used to save the environment?

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50. What is the Amrita Devi Bishnoi National

Award?

1. Why should fossil fuels be used judiciously?

Write any two reasons.

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# **2.** What are fossil fuels? Why are they so called?

3. Mention the steps taken by the West Bengal

Government to protect the badly degraded sal

forests.



**4.** Fossil fuels are being increasingly used as an energy source. List any two reasons for replacing these by alternative sources of energy.



**5.** List any two reasons due to which construction of large dams is opposed.

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6. How are fossil fuels formed?

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 7. a] Mention any two advantages of constructing dams.

b] Name a dam which was a subject of much

opposition from locals and NGO's.

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8. Name two fossil fuels. List one product each,

formed when these are burnt in sufficient

oxygen and insufficient oxygen.



9. List four stakeholders of forests.



**10.** List four disadvantages of burning fossil fuels.

**11.** Why are forests considered biodiversity hotspots? What would happen due to loss of biodiversity?



12. Local people around forests are referred to

as stakeholders for conservation of forests.

Give reasons.

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**13.** List any two measures you would take to conserve electricity at your home so that consumption of fossil fuel is reduced.

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**14.** "Narmada Bachao Andolan" raised issues of how construction of big dams creates environmental problems. Mention such issues.

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**15.** State the meaning of biodiversity hotspots. What is the criteria of measuring biodiversity

of an area?

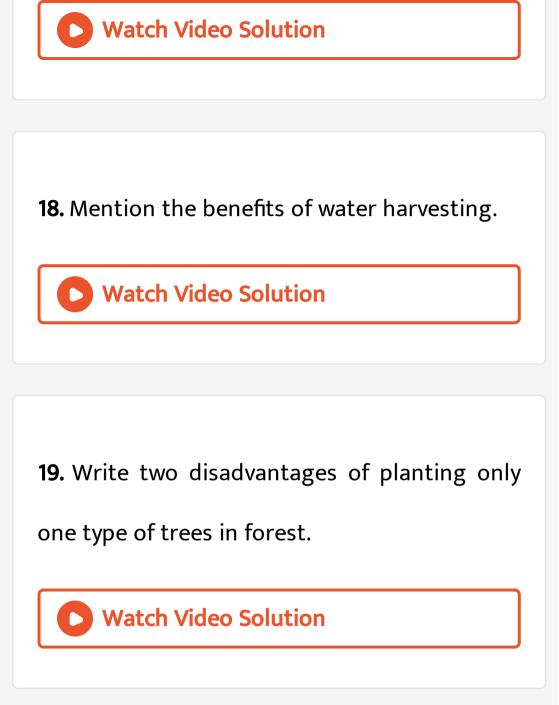
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16. "Rainwater harvesting is essential." Justify

this statement.

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17. Write two aims of the Chipko movement.



**20.** Suggest any two ways in which you can reduce energy consumption in your homes so that consumption of fossil fuels is reduced.



**21.** Name two poisonous products formed by burning of fossil fuels. Mention the estimated period up to which petroleum and coal reservoirs are expected to last.



22. Industrialists are referred to as one of the 'stakeholders' for conservation of forests. Give reasons. ii] Mention the name of the movement which arose due to conflict of interest between local people in forests and industrialists.

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**23.** What do the three R's refer to save the environment? Which one of these would be

the best for environment?

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24. Suggest any four ways of utilizing waste

water.

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25. List any four advantages of water stored as

groundwater.

**26.** Prepare a list of five items that you use daily in the school. Identify from the list such items that can be recycled.

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27. List two advantages associated with water

harvesting at the community level.

**28.** In a village in Karnataka, people started cultivating crops all around a lake which was always filled with water. They added fertilizers to their field in order to enhance the yield. Soon they discovered that the water body was completely covered with green floating plants and fishes started dying in large numbers. Analyze the situation and give reasons for excessive growth of plants and death of fish in the lake.



29. What measures would you take to conserve

electricity in your house?

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**30.** Although coal and petroleum are produced by degradation of biomass, yet we need to conserve them. Why?

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**31.** Suggest a few measures for controlling

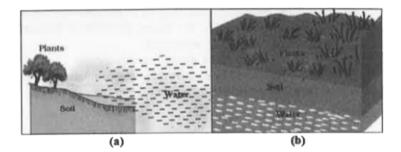
carbon dioxide levels in the atmosphere.

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**32.** I] Locate and name the water reservoirs in figures a and b.

II] Which has an advantage over the other and

why?





### 33. List the advantages of 'reduce' and 'reuse'

to save environment.

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34. Although coal and petroleum are produced

by degradation of biomass, we need to

conserve them. Why? Mention two reasons.



**35.** State the purpose for which the 'Khadin' technique is used in Rajasthan. Mention its advantages.



36. List any four human activities responsible

for the pollution of river water.



37. Why do we need to build large dams? List

four reasons.

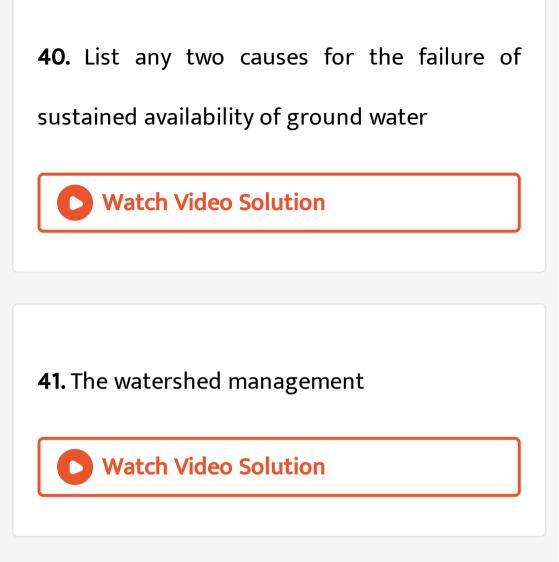


38. List any four advantages of water harvesting over water stored in ponds.
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39. What is water harvesting? Mention any two

water-harvesting structures.





**42.** There was a huge opposition from the local population during [6 the construction of

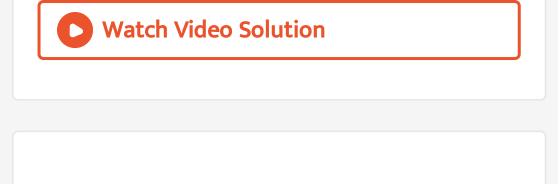
Tehri dam. On which river was this dam constructed? Mention any two reasons for this opposition.

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**43.** What is chipko movement.

Watch Video Solution

**44.** Reuse of plastic products is berter than recycle method. Why ?



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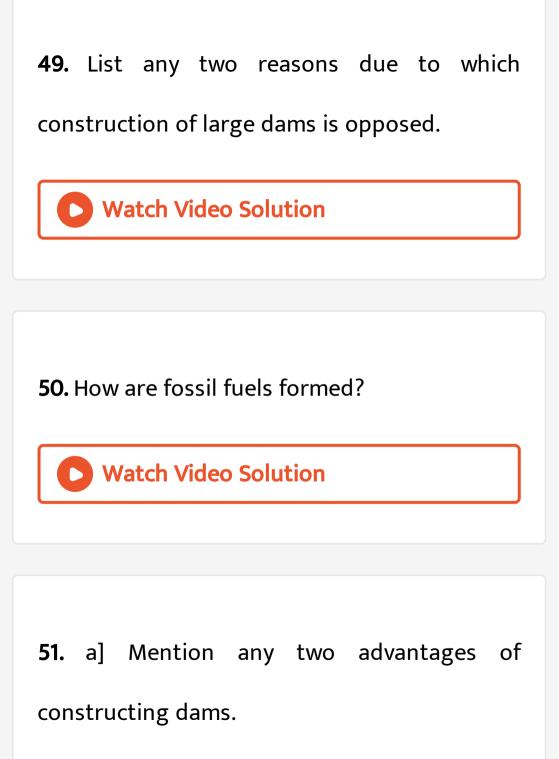
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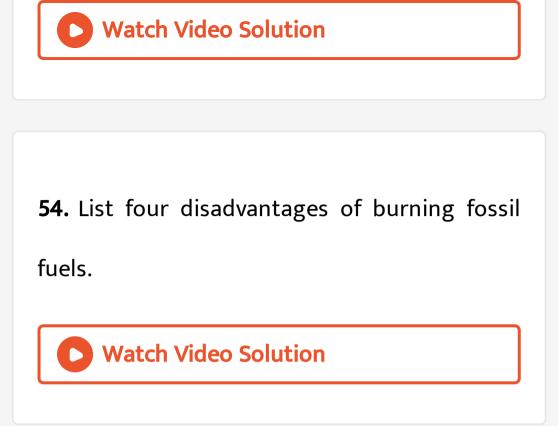
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What is the criteria of measuring biodiversity

of an area?



60. "Rainwater harvesting is essential." Justify

this statement.



**61.** Write two aims of the Chipko movement.



#### 62. Mention the benefits of water harvesting.

**63.** Write two disadvantages of planting only one type of trees in forest.

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**64.** Suggest any two ways in which you can reduce energy consumption in your homes so

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**66.** Industrialists are referred to as one of the 'stakeholders' for conservation of forests. Give reasons. ii] Mention the name of the movement which arose due to conflict of

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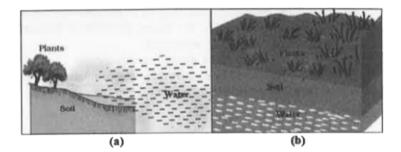
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**76.** I] Locate and name the water reservoirs in figures a and b.

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### 77. List the advantages of 'reduce' and 'reuse'

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and reuse to save environment:



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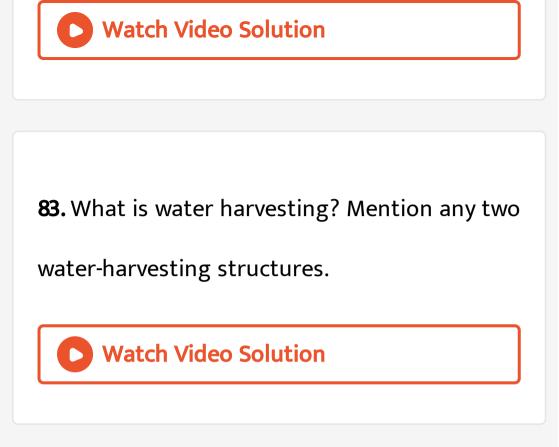


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**Watch Video Solution** 

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84. List any two causes for the failure of

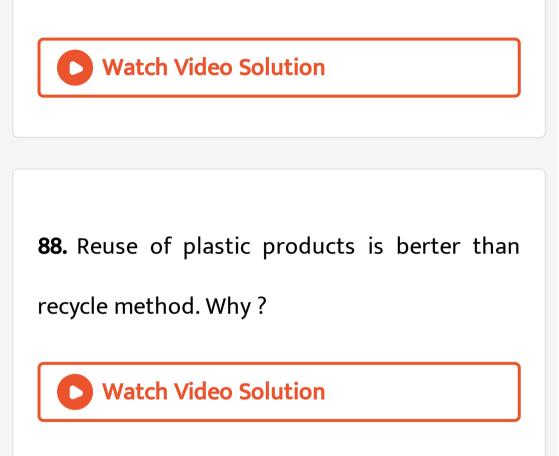
sustained availability of ground water

85. Write the advantages of watershed management.
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**86.** There was a huge opposition from the local population during [6 the construction of Tehri dam. On which river was this dam constructed? Mention any two reasons for this opposition.



**87.** What is chipko movement.



Zee Additional Questions Sections Long Answer La Type Questions 1. List any four advantages of water stored as

groundwater.



2. Why must we conserve our forests? List any

two causes for deforestation to take place.

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**3.** How are different stakeholders dependent

on forests? Mention any four of them.



**4.** How were traditional water-harvesting structures made? What is the main role of these structures?

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5. "Building crescent shaped earthen embankment in level terrain is better than the construction of large dams across the river to store water". Analyse this statement with their

effects.



6. Find out about the international norms to

regulate the emission of carbon dioxide.

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7. In the context of conservation of natural resources, explain the terms reduce, recycle

and reuse. From among the materials that we use in daily life, identify two materials for each category.

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