



BIOLOGY

BOOKS - BEYOND PUBLICATION

NATURAL RESOURCES



1. The BP Statistical Review of World Energy in June measured total global oil at 188.8 million tonnes, from proved oil resources at the end of 2010. This is only enough for oil to last for the next 46.2 years, What measures should be taken to conserve oil ? What will happen if we do not conserve it ?

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2. Here is a news strip, read it carefully and answer the following questions.

Villagers oppose sand mining project Santhabommali (Srikakulam) :

People of more than 20 villages in two

mandals of Srikakulam have raised a banner of revolt against the proposed beach sand mining project by a private company and threatened to intensify their agitation if the government does not cancel the project. The sand mining is being taken up to extract rich minerals from the area. The villages are located around the forest belt were mining was initiated.

Do you think the villagers are doing a right thing to agitate ? Why ?



3. Here is a news strip, read it carefully and answer the following questions. Villagers oppose sand mining project Santhabommali (Srikakulam) : People of more than 20 villages in two mandals of Srikakulam have raised a banner of revolt against the proposed beach sand mining project by a private company and threatened to intensify their agitation if the government does not cancel the project. The sand mining is being taken up to extract rich minerals from the area. The villages are

located around the forest belt were mining was initiated.

What resources are the villagers trying to save

by their agitation ?

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4. Here is a news strip, read it carefully and answer the following questions.

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Will the villagers be benefited by the rich minerals extracted from sand ?



5. Here is a news strip, read it carefully and answer the following questions. Villagers oppose sand mining project Santhabommali (Srikakulam) : People of more than 20 villages in two mandals of Srikakulam have raised a banner of revolt against the proposed beach sand mining project by a private company and threatened to intensify their agitation if the government does not cancel the project. The sand mining is being taken up to extract rich minerals from the area. The villages are

located around the forest belt were mining was initiated.

Why does the private company want to carry

out mining in the area ?



6. Here is a news strip, read it carefully and answer the following questions.

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People of more than 20 villages in two

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located around the forest belt were mining was initiated.

Does the government have any role to play?

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8. What is sustainable development ? How is it

useful in natural resource management?

9. Write a detailed note on management of a

natural resource.

Watch Video Solution

10. Suggest some ways of reusing a resource

in your locality.

11. Why should we conserve forests and wild

life?



12. Suggest some approaches towards the

conservation of forests.



13. Natural resources are.....types.



14. Prepare a questionnaire to conduct interview with petrol filling station personnel about consumption of fossil fuels.

Watch Video Solution

15. Prepare model for rain water harvesting or

energy saving or soil management, that reflect

your innovative thoughts.



16. List out names of villages, farmers and procedure followed for restoration of any natural resource in your area.

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17. Collect information related to feeling and hunger from your school library and prepare a note on it .



18. Does your village or nearest city have a mechanism in place for recycling these waste materials ? Find out how it is done and write in detail.



19. Draw a pie diagram showing percentage

consumption of some resources in India.

20. Which of the following shows highest oxidation number in combined state

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21. Collect any graph that shows oil (petroleum) consumption in India. Why will you say happened to production from past ten years, for example 2007 to 2014?

22. Collect any graph that shows oil (petroleum) con sumption in India
Suggest some ways to bring down consumption of petroleum.
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23. Proper utilisation of natural resources is the way to show gratitude to our nation. Can you support this statement ? Give your argument.



24. Crop selection and cultivation should be based on availability of water. Prepare a slogan to make aware of farmers about this.

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25. Natural resources are present in abundance but do we really manage them properly?

26. Which resource in your locality is scarce?

How does it effect you?

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27. Was the resource present in abundance

earlier?

28. How did it become scarce over the years?



29. What can you do as a step towards saving

a resource?

30. Area under irrigation

Village	Total Area (acres)	Percentage Area Irrigated	Number of Wells	Sample Size
Vanaparthy	3,791	25	155	25
Vaddicherla	2,970	15	175	25

What is the total irrigated area in acres, in

Vanaparthy?

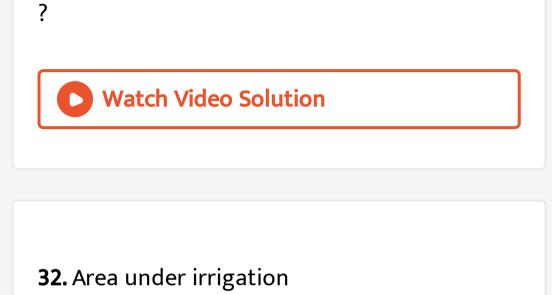
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31. Area under irrigation



If one needs to irrigate all the land in

Vanaparthy, how many wells would be required





Though the number of wells is less in Vanaparthy, the area under irrigation is more as compared to Vaddicherla. How is this possible ?



33. Area under irrigation



Do you think the area under irrigation will

change due to rise in population ?

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34. K stands for Kharif while R stands for Rabi.

Negative values indicate loss/ decline, while

positive ones show gain/ rise.

If the number of wells is 155 now , what was it

5 years back?

	St	atus after five yea	irs			and the second	Condition of		
Village	Percentage change in	Percentage decline in	Percentage change i area under crops					n	
	area under	number of	Pad K	ldy R	Cotton	Gingelly	All K	crops R	
Vanaparthy	irrigation - 14	wells - 39	- 17	100 5.000	163	86	11	- 17	
Vaddicherla	-30	- 68	-22	- 50	27	138 _i ,	- 05	- 50	

Watch Video Solution

35. K stands for Kharif while R stands for Rabi.

Negative values indicate loss/ decline, while

positive ones show gain/ rise.

What do you think 'decline in number of wells'

represents?

	St	atus after five yea	rs			and the second state of the	Ren al Al	_
Village	Percentage change in	Percentage decline in			228.2023	ge change nder crop	28 C 1	
	area under irrigation	number of wells	Pad K	ldy R	Cotton	Gingelly	All K	crops R
Vanaparthy	- 14	- 39	- 17	- 17	163	-86	11	- 17
Vaddicherla	-30	- 68	-22	- 50	27	138 ₁₁	- 05	- 50

Watch Video Solution

36. K stands for Kharif while R stands for Rabi.

Negative values indicate loss/ decline, while

positive ones show gain/ rise.

How would crops be affected due to decline in

the number of wells ?

	30	atus arter nee yeur	-		1100 BOR /00 BOR	A CONTRACTOR OF TAXABLE	Sec. 1		
Village	Percentage	Percentage		1	1000000	ge change			
	change in	decline in	area u		under crops		<u></u>		
	area under	number of	Paddy		Cotton	Gingelly Al		l crops	
	irrigation	wells	K	R			к	R	
Vanaparthy	- 14	- 39	- 17	- 17	163	-86	11	- 17	
Vaddicherla	- 30	- 68	-22	- 50	27	138 ₄₁	- 05	- 50	
vauticiietta			<u> </u>						

Status after five years

Watch Video Solution

37. K stands for Kharif while R stands for Rabi.Negative values indicate loss/ decline, while positive ones show gain/ rise.Compare table 1 and 2 and state what they tell us about the area under irrigation in both the

villages ?

	St	atus after five yea	urs			-	LONG CO	
Village	Percentage change in	Percentage decline in			1.1.1.1.1.1.1	ge change nder crop		
	area under irrigation	number of wells	Pac K	ldy R	Cotton	Gingelly	All K	crops R
Vanaparthy	- 14	- 39	- 17	- 17	163	-86	11	- 17
Vaddicherla	- 30	- 68	-22	- 50	27	138 ₁₁	- 05	- 50

Watch Video Solution

38. K stands for Kharif while R stands for Rabi.

Negative values indicate loss/ decline, while

positive ones show gain/ rise.

Which village do you think is more affected

	St	atus after five yea	rs		0	and the second states of the	KO ON	
Village	Percentage change in	Percentage decline in			201 202	ge change nder crop		
		number of wells	Pac K	ldy R	Cotton	Gingelly	All K	crops R
Vanaparthy	- 14	- 39	- 17	- 17	163	-86	11	- 17
Vaddicherla	- 30	- 68	-22	- 50	27	138 ₁₁	- 05	- 50

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39. How much percent of area do you think is

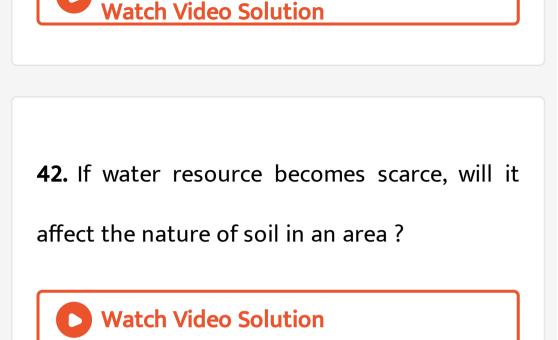
irrigated by other sources of water ?

40. By comparing the two villages, find out where greater number of wells dried up? What methods would have saved the wells in other village ?

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41. Which type of farmers, those having small land holdings or those with large land holdings are most affected when wells dry up ?





43. As wells dry up, how are people in the area

dependent on the well affected ?

44. Why do you think water became scarce

mainly in Village - 2?



45. Annual expenditure on well irrigation for

small and large farmers (2002).

Is the availability of water resource same for a

small and a large farmer ?

/illage Type of Depth of Farmer borewell		190211628256	nge area per well	Total cost of well irrigation per acre		
	(in feet)	Kharif	Rabi	per year in rupees		
Large	130 - 200	2.50	1.24	25,000 - 70,000		
Small-	110 - 180	2.00	1.13	25,000 - 65,000		
Large .	90 - 300	1.53 -	0.87	22,000 - 50,000		
Small	60 - 200	0.99	0.46	20,000 - 45,000,		
	Farmer Large Small- Large -	Farmer borewell (in feet) Large 130 - 200 Small 110 - 180 Large 90 - 300	Farmer borewell Irrigated (in feet) Kharif Large 130 - 200 2.50 Small- 110 - 180 2.00 Large • 90 - 300 1.53 •	Farmer borewell irrigated per well (in feet) Kharif Rabi Large 130 - 200 2.50 1.24 Small 110 - 180 2.00 1.13 Large - 90 - 300 1.53 0.87		



46. Annual expenditure on well irrigation for

small and large farmers (2002).

How should a farmer utilize such a condition ?

Village _{ulo}	Type of Farmer	Depth of borewell	1 9 9 2 1 1 6 2 5 5 5 5 5	age area I per well	Total cost of well irrigation per acre		
		(in feet)	Kharif	Rabi	per year in rupees		
Vanaparthy	Large	130 - 200	2.50	1.24	25,000 - 70,000		
	Small-	110 - 180	2.00	1.13	25,000 - 65,000		
Vaddicherla	Large .	90 - 300	1.53 ,	0.87	22,000,-50,000		
	Small	60 - 200	0.99	0.46	20,000 - 45,000,		

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47. Annual expenditure on well irrigation for small and large farmers (2002).

If a well can irrigate 2.5 percent of cultivable

land, how many wells would irrigate whole of

the land ?

Village	Type of Farmer	age area l per well	Total cost of well irrigation per acre		
		(in feet)	Kharif	Rabi	per year in rupees
Vanaparthy	Large	130 - 200	2.50	1.24	25,000 - 70,000
	Small-	110 - 180	2.00	1.13	25,000 - 65,000
Vaddicherla	Large .	90 - 300	1.53 ,	0.87	22,000,-50,000
	Small	60 - 200	0.99	0.46	20,000 - 45,000,

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48. Annual expenditure on well irrigation for small and large farmers (2002). Which factor has a greater effect on expenditure, number of wells or depth of a

Village	Type of Farmer	Depth of borewell	190233658555	age area l per well	Total cost of well irrigation per acre
		(in feet)	Kharif	Rabi	per year in rupees
Vanaparthy	Large	130 - 200	2.50	1.24	25,000 - 70,000
	Small-	110 - 180	2.00	1.13	25,000 - 65,000
Vaddicherla	Large .	90 - 300	1.53 .	0.87	22,000,- 50,000
	Small	60 - 200	0.99	0.46	20,000 - 45,000,

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49. Annual expenditure on well irrigation for small and large farmers (2002).

What is the total expenditure on a whole cultivable land owned by a small farmer in Vaddicherla ? How do you think a small farmer

meets this expenditure ?

Village	Type of Farmer	Depth of borewell		age area I per well	Total cost of well irrigation per acre		
	1.1	(in feet)	Kharif	Rabi	per year in rupees		
Vanaparthy	Large	130 - 200	2.50	1.24	25,000 - 70,000		
	Small-	110 - 180	2.00	1.13	25,000 - 65,000		
Vaddicherla	Large .	90 - 300	1.53 .	0.87	22,000,-50,000		
	Small	60 - 200	0.99	0.46	20,000 - 45,000,		

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50. Annual expenditure on well irrigation for small and large farmers (2002). What could help the small farmer reduce expenditure ? (Hint : think of crops that

require less water)

Village	Type of Farmer	Depth of borewell	190211525555	age area l per well	Total cost of well irrigation per acre	
		(in feet)	Kharif	Rabi	per year in rupees	
Vanaparthy	Large	130 - 200	2.50	1.24	25,000 - 70,000	
	Small-	110 - 180	2.00	1.13	25,000 - 65,000	
Vaddicherla	Large .	90 - 300	1.53 ,	0.87	22,000,-50,000	
	Small	60 - 200	0.99	0.46	20,000 - 45,000,	

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	Village	Type of	Net	t income p	er acre in R	upees	Total income per
		Farmer	Paddy Kharif	Paddy Rabi	Cotton	Gingelly	acre year in rupees
	Vanaparthy	Large	8,200	8,700	4,900	3,300	. 25,100
		Small	7,046	8,490	10,889	3,110	29,535
	Vaddicherla	Large	10,698	5,970	4,000	3,595	>24,263
51.		Small	9,128	7,380	3,031	2,650	22,189

Which crop is most profitable for a small

farmer in Vaddicherla?

	Income on crops									
	Village	Type of	Net	income pe	Total income per					
		Farmer	Paddy Kharif	Paddy Rabi	Cotton	Gingelly	acre year in rupees			
	Vanaparthy	Large	8,200	8,700	4,900	3,300	. 25,100			
		Small	7,046	8,490	10,889	3,110	29,535			
57	Vaddicherla	Large	10,698	5,970	4,000	3,595	>24,263			
52.		Small	9,128	7,380	3,031	2,650	22,189			

What is the difference between a small farmer

in Vanaparthy and Vaddicherla?



			Income	on crops		
Village	Type of	Total income per				
	Farmer	Paddy Kharif	Paddy Rabi	Cotton	Gingelly	acre year in rupees
Vanaparthy	Large	8,200	8,700	4,900	3,300	. 25,100
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Vaddicherla	Large	10,698	5,970	4,000	3,595	>24,263
	Small	9,128	7,380	3,031	2,650	22,189

53.

Which crop could replace paddy and be

Vanaparthy?

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Income on crops										
Village	Type of	Net	Total income pe							
	Farmer	Paddy Kharif	Paddy Rabi	Cotton	Gingelly	acre year in rupees				
Vanaparthy	Large	8,200	8,700	4,900	3,300	. 25,100				
	Small	7,046	8,490	10,889	3,110	29,535				
Vaddicherla	Large	10,698	5,970	4,000	3,595	>24,263				
	Small	9,128	7,380	3,031	2,650	22,189				

54.

Though we know that paddy consumes

maximum water, why do you think farmers still

like to grow paddy?

		Income on crops										
	Village	Type of	Net	income p	Total income per							
		Farmer	Paddy Kharif	Paddy Rabi	Cotton	Gingelly	acre year in rupees					
	Vanaparthy	Large	8,200	8,700	4,900	3,300	. 25,100					
		Small	7,046	8,490	10,889	3,110	29,535					
	Vaddicherla	Large	10,698	5,970	4,000	3,595	>24,263					
55.		Small	9,128	7,380	3,031	2,650	22,189					

What is the impact of a depleting resource

upon the farmers ?

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			Income	e on crops		
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Vaddicherla	Large	10,698	5,970	4,000	3,595	>24,263
	Small	9,128	7,380	3,031	2,650	22,189

56.

Do you think the income of a small farmer in

Vaddicherla is sufficient enough to meet his

expenditure ?

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			Incom	e on crops		
Village	Type of	Net	t income p	Total income per		
	Farmer	Paddy Kharif	Paddy Rabi	Cotton	Gingelly	acre year in rupees
Vanaparthy	Large	8,200	8,700	4,900	3,300	. 25,100
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Vaddicherla	Large	10,698	5,970	4,000	3,595	>24,263
	Small	9,128	7,380	3,031	2,650	22,189

57.

What are the major causes of pitiable

condition of small farmers at Vaddicherla?

			Income	on crops		
Village	Type of	Net	income p	Total income per		
	Farmer	Paddy Kharif	Paddy Rabi	Cotton	Gingelly	acre year in rupees
Vanaparthy	Large	8,200	8,700	4,900	3,300	. 25,100
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Vaddicherla	Large	10,698	5,970	4,000	3,595	>24,263
	Small	9,128	7,380	3,031	2,650	22,189

Do you think farming as an occupation is

profitable for the small farmer in Vaddicherla?

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Income on crops										
Village	Type of	Net	income p	ipees	Total income per					
	Farmer	Paddy Kharif	Paddy Rabi	Cotton	Gingelly	acre year in rupees				
Vanaparthy	Large	8,200	8,700	4,900	3,300	. 25,100				
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	Vanaparthy	Vanaparthy Large Small Vaddicherla Large	Farmer Paddy Kharif Vanaparthy Large 8,200 Small 7,046 Vaddicherla Large 10,698	Village Type of Farmer Net income p Paddy Farmer Paddy Khanif Paddy Rabi Vanaparthy Large 8,200 8,700 Small 7,046 8,490 Vaddicherla Large 10,698 5,970	Village Type of Farmer Net income per acre in Ru Paddy Cotton Vanaparthy Large 8,200 8,700 4,900 Small 7,046 8,490 10,889 Vaddicherla Large 10,698 5,970 4,000	Village Type of Farmer Net income per acre in Rupees Paddy Paddy Cotton Gingelly Vanaparthy Large 8,200 8,700 4,900 3,300 Small 7,046 8,490 10,889 3,110 Vaddicherla Large 10,698 5,970 4,000 3,595				

58.

Would the farmer have to look for other kind

of occupations to meet his ends?

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		Income on crops										
	Village	Type of	Net	t income p	ipees	Total income per						
		Farmer	Paddy Kharif	Paddy Rabi	Cotton	Gingelly	acre year in rupees					
	Vanaparthy	Large	8,200	8,700	4,900	3,300	. 25,100					
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60.		Small	9,128	7,380	3,031	2,650	22,189					

How did the availability of water affect a small

farmer at Vaddicherla?

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61. How can wells be recharged ?

62. How would recharging dried up wells help

farmers of Village - 2?



63. What does the case tells us about a water

resource and its effect on farmers ?

64. How do you think we can use water judiciously?
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65. Why were farmers at Village - 1 at a better

state than those at Village - 2?



66. How did farmers of Village -2 and Village -1

recharge their ground water resources ?

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67. What other ways of restoration of a resource does the Kothapally case tell us about ?

68. What are some common means of restoration and conservation of water resource that we came across in the cases studied so far ?

Watch Video Solution

69. What do you think will happen if we do not

take care of the sources of water ?

70. What do you think will happen if we do not

take care of the sources of water ?

0	Watch	Video	Soluti	on	

71. How do you think we will meet our requirements in future ?

72. Do you think we would have to depend upon other states or perhaps other countries as well ?



73. Could the amount of water used for irrigation in our state be reduced ? How ?



74. Does cropping pattern have any role to

play in reduction of water utilisation ?



75. Do you think one needs laws for distribution of water and its use ? Why/Why not ?

76. How much percent of area do you think is

irrigated by other sources of water ?



77. Why is it imortant to recharge the ground

water sources ?



78. Why do the rivers fail to benefit the state

to an extent they should have ?

Watch Video Solution

79. Since ground water resources are getting depleted at a fast pace. What are the alternatives ?

80. River Godavari fails to provide water for the projects like Sri Rama Sagar in our state due to over usage of water by some other state. How should states and countries work to provide enough for all ?

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81. What would you do to motivate others to

manage an important resource in your locality





83. Why do you think forests are important?

84. Observe a lawn in your area (If you have one) and see how it is maintained. Find out from the gardener the different types of plants that he removes from time to time. Do you think a farmer does the same thing on his farm ?

Watch Video Solution

85. What do fossil fuels provide us?

86. Why do we need to conserve the fossil fuels ?



87. Collect information about solar, wind, tidal and water power and prepare a scrap book.

OR

Collect information about conventional energy

sources from internet and prepare a note on



88. Collect information about solar, wind, tidal and water power and prepare a scrap book.
OR
Collect information about conventional energy sources from internet and prepare a note on it.

89. Ask your teacher about nuclear energy and

its impacts on ecosystem.

Watch Video Solution

90. Do you think is it necessary to have a lot of

lighting for decoration during celebrations ?

91. What other things could you reuse to save

our resources ?

Watch Video Solution

92. Why should one sort wastes carefully

before discarding them from home ?

93. Often we keep a plastic bag in our dustbins

to discard waste, is it a good practice?

> Watch Video Solution

94. Can international, national or state organisations alone manage a resource ? Who all are involved in the whole process of management ?

95. Suggest some ways of reusing a resource

in your locality.



96. Are we also an important resources of

nature ? How ?

97. Find out the usage of water in litres per day in your home ? Do you actually require that much water and how much water is enough in accordance with National standards

?



98. Study the different ways in which waer is used , misused and recycled in the area where you stay. Prepare a questionnaire with the

help of your friennds and teacher and study atleast five households in your locality for the same . Also explore and discuss ways to provide water for all.



Watch Video Solution

99. Now a days people are revolting agains mining. Collect any such incident of our state or neighbouring states from school library or newspapers nad conduct a seminar on its impact.





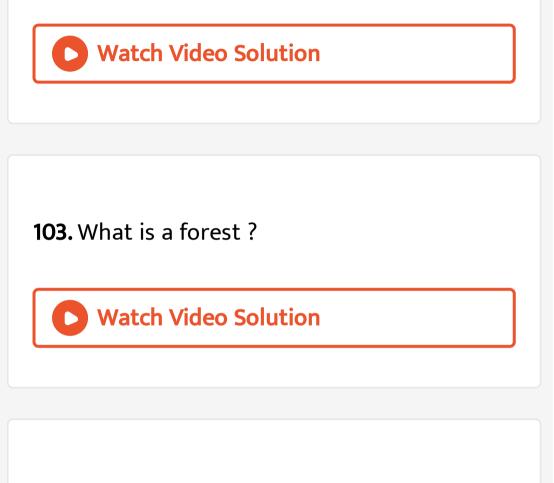
100. What is sustainable development? Why it

is needful for us ?

Watch Video Solution

101. What is conservation ?

102. What are natural resources?



104. Why should we conserve forests and wild

life?



105. What is conservation ?

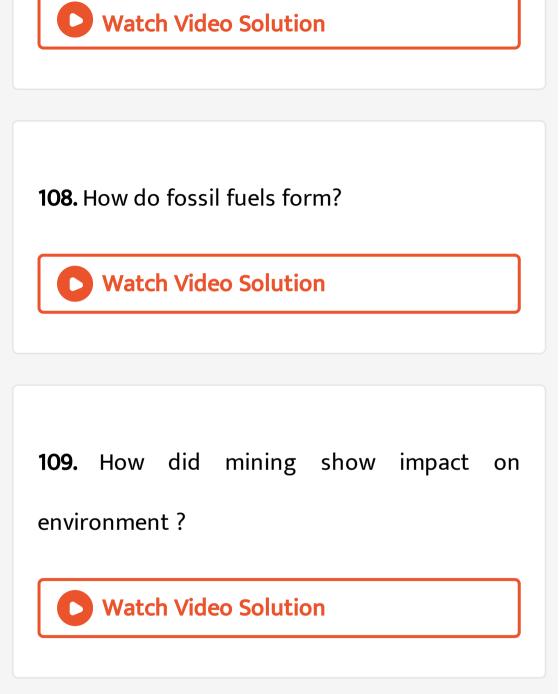
Watch Video Solution

106. What is "Biodiversity" ? What is its

importance ?

Watch Video Solution

107. Fossil fuel



110. What happens if we use our resources wisely?
Watch Video Solution

111. What is chewing gum? How is it made of?

Watch Video Solution

112. What are natural resources?

113. What are biodiversity hot spots ? What is

the measure of the biodiversity?



114. Expand ICRISAT.



115. When can we say that the water resource

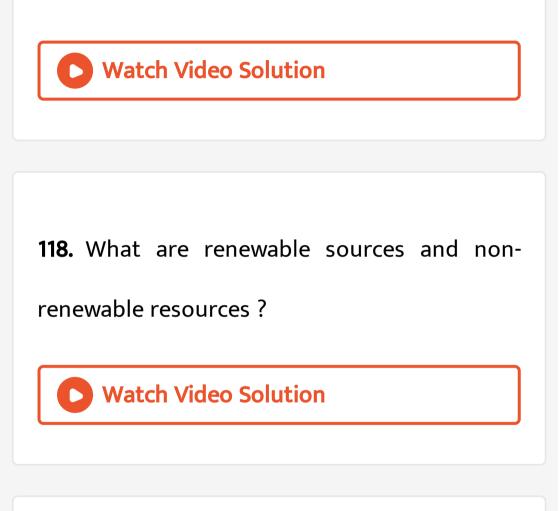
is scarce in an area ?

Watch Video Solution

116. What is the prediction of the food and Agriculture Organisation of the United

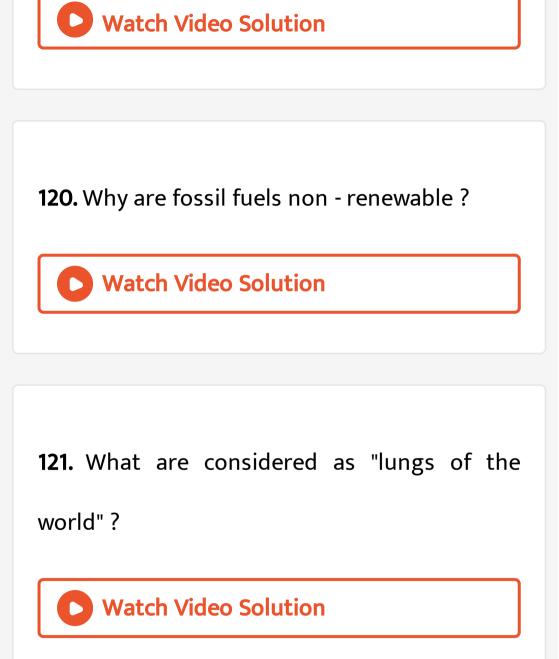
Nations regarding water scarcity?

117. What is conservation ?



119. What are renewable sources and non-

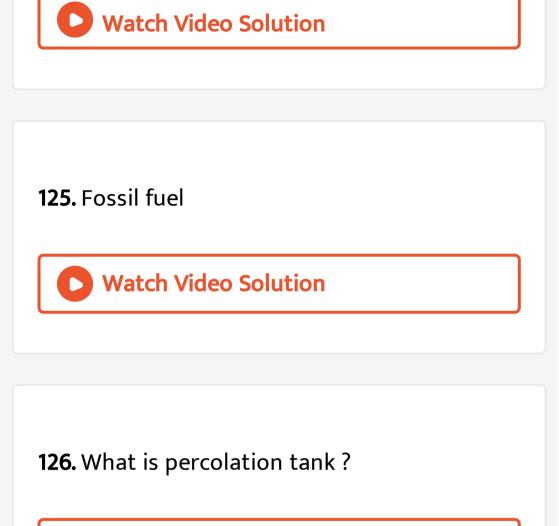
renewable resources ?



122. What is contour strip cropping ? What is its use? Watch Video Solution **123.** What is selective harvesting? Watch Video Solution

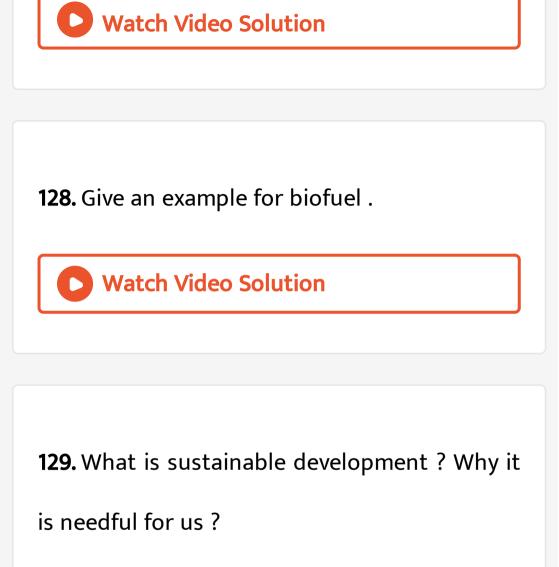
124. How many species are extincting every

year?





127. What is micro-irrigation ?





130. Suggest any two activities to check soil

erosion in your school.



131. To create awareness on "Water

conservation" in your locality, what slogan you

will suggest ?

132. To create awareness on "Water conservation" in your locality, what slogan you will suggest ?



133. Crop selection and cultivation should be

based on availability of water. Prepare a slogan

to make aware of farmers about this.



134. Suggest methods to spread awareness in the community about conservation of natural

resources?

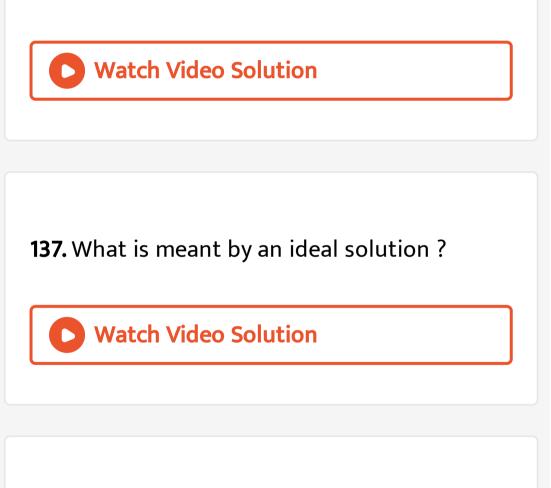


135. Write some slogans for protection of Environment .



136. What happens if the forest area decreases

rapidly ?



138. Prepare a questionnaire to conduct interview with petrol filling station personnel

about consumption of fossil fuels.



139. What are the alternative ways to increase

the underground water resources?

Watch Video Solution

140. Write a short note on the distribution of

water on earth.



141. What are the uses of Hydrochloric acid

(HCl) ?

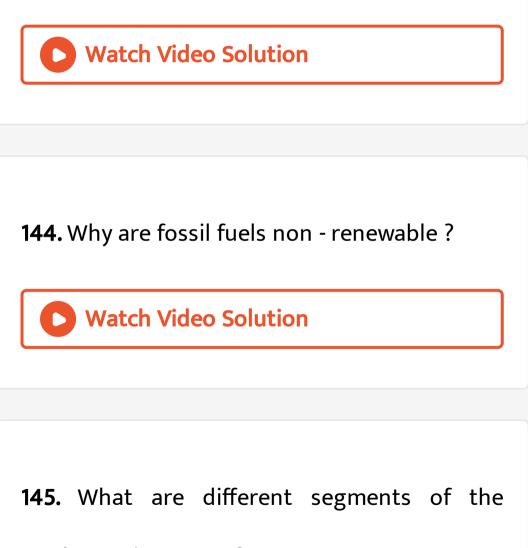


142. How do we follow sustainable forestry

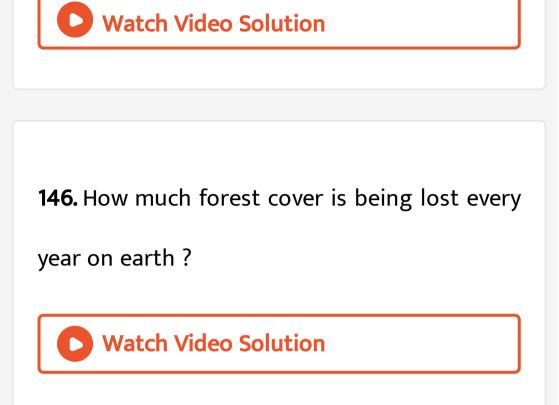
practices ?

143. What are biodiversity hot spots ? What is

the measure of the biodiversity?



earth's environment ?



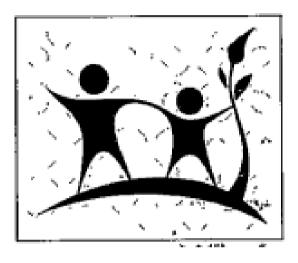
147. What is the condition of Kothapalli village

? What was found in the survey ?



148. Sustainable development.

What is sustainable development ?



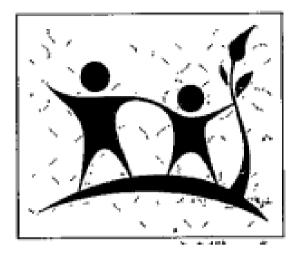


Vatch Video Solution

149. Sustainable development.

Why a plant is there along with man in this

logo?





150. Observe the logo of Recycling.

What are the three arrow symbols indicate ?



Watch Video Solution

151. Observe the logo of Recycling.

Can we recyle plastic?





152. Write any four slogans on the conservation of natural resources.

Watch Video Solution

153. Write few slogans on increase of regular

cycling and walking.

154. What is the importance of soil as a

natural resource ?



155. Why the recyling of plastic is not a very

good option?

156. Draw a pie diagram to show the water sources and area under irrigation in our state.

Watch Video Solution

157. Draw a pie diagram showing percentage

consumption of some resources in India.

 158. Draw the logo of sustainable

 development.

 Watch Video Solution

159. Why is scarcity of water in our country in spite of nature's monsoon bounty (large quantities) ?

160. Why is dependence of man on nature

greater than that of any other organism?

Watch Video Solution

161. In addition to low rainfall, what are the other reasons for non-availablity of water in some regions of our country ?

162. Write the advantages of giving control of

water management to the residents of the

area.



163. Do you think one needs laws for distribution of water and its use ? Why/Why not ?



164. What are the benefits of water harvesting



?

165. Why are environmentalists insisting upon substantial natural resource management ? Give any four reasons.

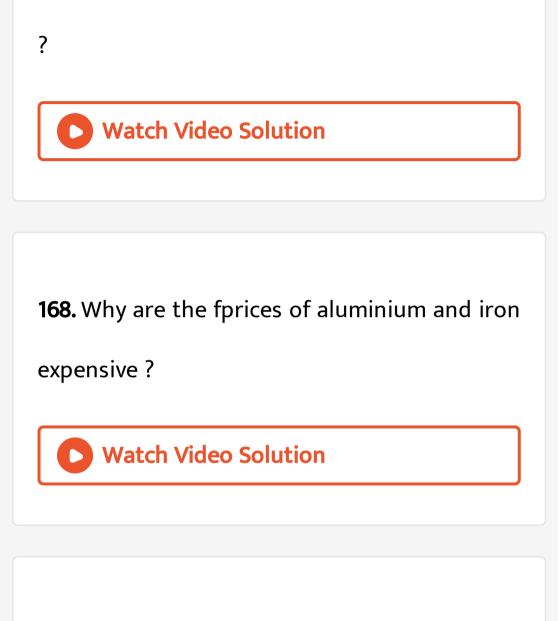


166. Ramalah made broad bed furrow around his field under employment guarantee scheme. Guess the reasons for it ? If all the farmers of your village work together, will they meet their water scarcity ?

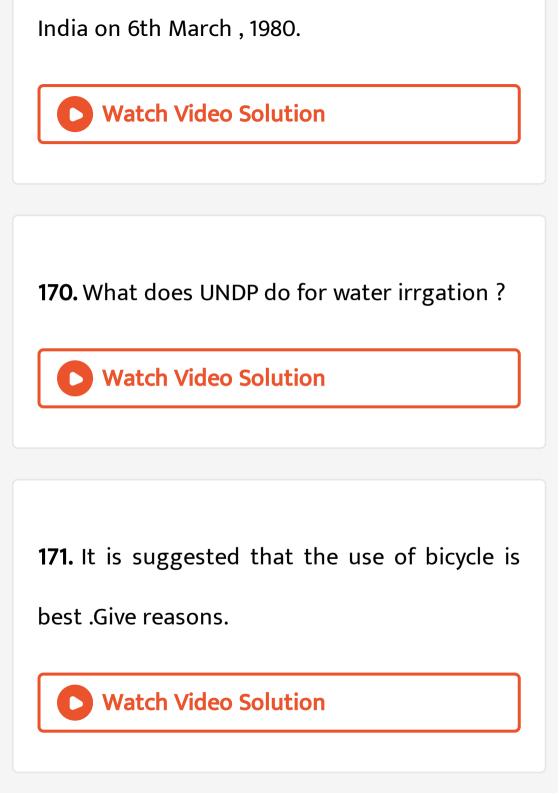
Watch Video Solution

167. Rahul remarked that different human activities are responsible for global warming.

What might be the resasons for his statement



169. What did Smt. Indira Gandhi said, while launching the world conservatin strategy in



172. In so many developed countries the officers go to offices by bicycles but not in cars. Why are they doing like that ?



173. Prepare a questionnaire to know about

the water management system in the village ?



174. In Tamil Nadu each and every person who wants to build the house has to promise that they will store rain water. Then only they will get permission for construction. Write your assumptions on why we have to store water.



175. Which type of questions would you like to

ask the farmer to know about the importance

of Gliricidia plant?



176. Ranhaswamy has much of water facility in his well. He will always cultivate the wet crops. But remaining farmers are suffering from lack of water. What do you suggest him ?

Watch Video Solution

177. Write a short note on the distribution of

water on earth.



178. What are the disadvantages of

deforestation ?

Watch Video Solution

179. Why do we need to conserve the fossil

fuels ?

180. What is the state of Minerals as a resource ? Mention two methods that helps to conserve mineral resources.



181. Write about the four 'R's that can save environment.

182. Write a short note on the role ofGovernments and other organisations inconserving resources. ORWrite a short note on IUCN.

Watch Video Solution

183. Write a short note on the role ofGovernments and other organisations inconserving resources.OR

Write a short note on IUCN.





184. How did Centre for World Solidarity helped the farmers in Wanaparthy and Vaddicherla in recharging wells ?

Watch Video Solution

185. What changes would you suggest in your

home to be environmental friendly ?

186. What steps do you take to improve natural resources ?

Watch Video Solution

187. Forests are renewable resource. Write four

sentences supporting this. (OR)

"Forest is a renewable resource". Do you agree

? Justify.

188. The wells and tanks in your village dry. Ground water levels decreased. Assume the causes for this. Will there be no water scarcity if all the farmers of your village work collectively?

Watch Video Solution

189. Think that there is much scarcity of water for drinking and cultivation in your village. What advice do you give to prevent this ?

How do you overcome the problem of water

scarcity in your village ?



190. Think that there is much scarcity of water for drinking and cultivation in your village. What advice do you give to prevent this ?

OR

How do you overcome the problem of water

scarcity in your village ?



191. For which works fossil fuels are used in your house ? What measures do you take to conserve them ?

Watch Video Solution

192. Observe the above table and answer the

following questions.

Is there any relationship between production

of crops and income ? How ?

Village	Type of Farmer	Income per acre on Crops			
		Paddy	Cotton	Mirchi	Maize
A	Small	7,500	9,300	5,200	5,000
	Large	26,700	38,000	16,700	12,900
В	Small	7,200	8,750	4,900	5,100
	Large	32,900	42,000	18,400	13,700



Watch Video Solution

193. Write about the four 'R's that can save

environment.

194. Write some slogans for protection of Environment .
Watch Video Solution

195. Forest is renewable resource. But, each year, the Earth loses about 36 million acres of forest. In this type of situation, what suggestions do you give to save forests from turning into non-renewable resources ?



196. Prepare a pamphlet on the activites done by ICRISAT.



197. Ask your teacher about nuclear energy and its impacts on ecosystem.



1. Read the table and answer the following question.

Is the availability of water resource same for a

small and a large farmer ?

Village	Type of Depth of farmer borewell (in feet)	% area irrigated per well		Total cost of well irrigation per acre	
		Kharif	Rabi	per year in rupee	
Vanaparthy	Large	130 - 200	2.50	1.24	25000 - 70000
	Small	110 – 180	2.00	1.13	25000 - 65000
Vaddicherla	Large	90 - 300	1.53	0.87	22000 - 50000
	Small	60 - 200 ·	0.99	0.46	20000 - 45000

Watch Video Solution

2. Read the table and answer the following question.

Do you think the availability should be same

for everyone in our area?

Village	Type of Depth of farmer borewell (in feet)	% area irrigated per well		Total cost of well irrigation per acre	
		Kharif	Rabi	per year in rupee	
Vanaparthy	Large	130 - 200	2.50	1.24	25000 - 70000
Vaddicherla	Small	110 - 180	2.00	1.13	25000 - 65000
	Large	90 - 300	1.53	0.87	22000 - 50000
	Small	60 - 200	0,99	0.46	20000 - 45000



3. Read the table and answer the following question.

Which factor has a greater effect on

expenditure ?

Village	Type of Depth of farmer borewell (in feet		% area irrigated per well		Total cost of well
		borewell (in feet)	Kharif	Rabi	per year in rupee
Vanaparthy	Large	130 - 200	2.50	1.24	25000 - 70000
Vaddicherla	Small	110 - 180	2.00	1.13	25000 - 65000
	Large	90 - 300	1.53	0.87	22000 - 50000
	Small	60 - 200	0,99	0.46	20000 - 45000

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4. Read the table and answer the following question.

How do you think a small farmer meets this

expenditure ?

Village	Type of Depth of farmer borewell (in feet)	% area irrigated per well		Total cost of well irrigation per acre	
		Kharif	Rabi	per year in rupee	
Vanaparthy	Large	130 - 200	2.50	1.24	25000 - 70000
Vaddicherla	Small	110 – 180	2.00	1.13	25000 - 65000
	Large	90 - 300	1.53	0.87	22000 - 50000
	Small	60 200 ·	0,99	0.46	20000 - 45000

Watch Video Solution

5. What do you think will happen if we do not

take care of the sources of water ?

6. How do you think we will meet our requirements in future ?
Watch Video Solution

7. Do you think we would have to depend upon other states or perhaps other countries as well ?

8. Could the amount of water used for irrigation in our state be reduced ? How ?
Watch Video Solution

9. plants are used for production

of biofuels.



10. Biodiversity is important for more than just

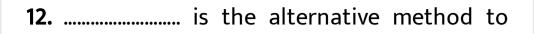
food and for also.



11. Example for non-renewable resource is

Watch Video Solution

.....



prevent ground water depletion.





..... areas.



14. Percolation tanks helps to

A. Supply water for agriculture

B. Increase ground water level

C. Preserve rain water

D. Prevent voerflow of water from tanks

during rainy season

Answer:

15. Which of the following practices is suitable
to farmer at less water resources ?
i) select short term crops ii) cultivate
commercial crops
iii) adapt drip system iv) crop
holiday

A. i,ii

B. i,ii,iii

C. i,iv

D. iii,iv

Answer:



16. Which of the fossil fuel reserves decrease more rapidly in India ?

A. Natural gas

B. Coal

C. Petroleum

D. All

Answer:



17. Huge amount of toxic chemicals leak into the surroundings ecosystem because of

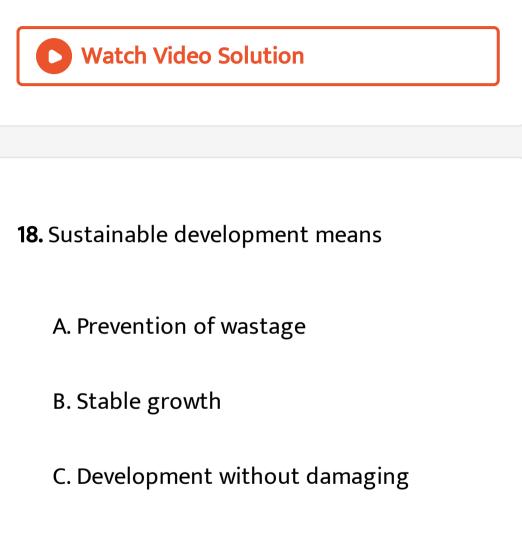
A. Industries

B. Mining

C. Pesticides

D. Modern technology





D. High yieldings in less time

Answer:



19. The chipko movement is associated with

A. Lions

B. Tigers

C. Trees

D. Potatoes

Answer:

20. With which tree 'Bishnoi' tribe people associated with ?

A. Co

B. Petroleum

C. Forests and wild life

D. Oil

Answer:

21. Snakes are killed in large scale because

A. They are poisonous

B. They eats rats

C. Their skin is valuable

D. They damage the crops

Answer:

22. Write some eco - friendly activities.

A. Cars for transporation

B. Poly bags for shopping

C. Wind mills for generating power

D. Bike rides

Answer:

23. Groundwater will not be depleted due to

A. Afforestation

B. Establishing thermal power plants

C. Deforestation

D. Cultivation of crops

Answer:

24. What are natural resources?

A. Frogs

B. Wind

C. Wooden house

D. Neem tree

Answer:

25. With which tree 'Bishnoi' tribe people associated with ?

A. Khajoar

B. Khejrali

C. Khejri

D. Keekar

Answer:

26. Which of the following is not a fossil fuel

A. LPG

B. Natural gas

C. Bio gas

D. CNG

Answer:

Watch Video Solution

27. How is water polluted ?

A. Zero

B. Below 7

C. Above 7

D. Exactly 7

Answer:

Watch Video Solution

28. The consumption of coal in india is

A. 0.07

B. 0.24

C. 0.42

D. 0.02

Answer:

Watch Video Solution

29. The international union for the

conservation of nature is founded in

A. 1947

B. 1948

C. 1949

D. 1950

Answer:

Watch Video Solution

30. (A) Recycling waste to useful products

- B) Sewage treatment
- C) Green chemistry implementation
- Correct related to waste disposal

A. Glass

B. Wax

C. Paper

D. All

Answer:



31. Different crops with different root systems

help in

A. Soil erosion

- **B. Soil conservation**
- C. Rayalaseema
- D. None of these

Answer:

Watch Video Solution

32. Earth's supply of raw mineral resources is

in

A. Progress

B. Increasing

C. A and B

D. Danger

Answer:

Watch Video Solution

33. World solidarity centre is present in

A. Hyderabad

- B. Wraangal
- C. Secunderabad
- D. Khammam

Answer:

Watch Video Solution

34. Decrease in ground water level is due to..

A. lack of rainfall

B. deforestation

C. increase in number of borewells

D. all of these

Answer:

Watch Video Solution

35. The zone of atmosphere in which the

ozone layer is present is called

A. carbon dioxide

B. oxygen

C. chlrofluorocrbons

D. nitrogen dioxide

Answer:

Watch Video Solution

36. Give an example for biofuel .

A. Coal

B. Petroleum

C. Jatropa

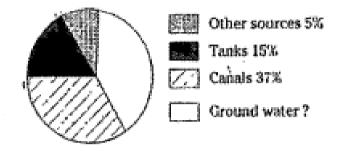
D. Kerosene

Answer:

Watch Video Solution

37. In the above pie diagram , sources v area under irrgation is shown . Then ground water

percentage is..



A. 0.4

B. 0.45

C. 0.43

D. 0.48





38. What are renewable sources and non-renewable resources ?

A. Water

B. Solar energy

C. Coal

D. Soil

Answer:



39. If deforestation is done in large scale, what natural calamity may occur ?

A. Volcanic eruption

B. Earthquakes

C. Global warming

D. Tsunamis





40. This is not a method of saving fuel.

A. Using bicycle

- B. Travel in trains insteads of cars
- C. Using cellphones
- D. Drawing of water from wells

Answer:



41. Name the major particulate pollutants present in Troposphere.

A. CO_2 B. ash C. SO_2

D. CO

Answer:





42. UNDP means....

A. United Nations Drought Programme

B. United Nations Development Plan

C. United Nations Development

Programme

D. United Nations Director of Planning

Answer:

43. How are fuels like coal and petroleum formed ?

A. only statement I is correct

B. only statement II is corerect

C. both statements I and II are correct

D. both statements I and III are correct

Answer:

44. Ramya gave her old books to her sister. Which type of conservation method it is ?.....

A. Reduce

B. Recycle

C. Help

D. Reuse

Answer:

deforestation ?

A. Volcanic eruption

B. Earthquakes

C. Global warming

D. Tsunamis

Answer:

46. This is not a method of saving fuel.

A. Using bicycle

B. Travel in trains insteads of cars

C. Using cellphones

D. Drawing of water from wells

Answer:

47. Major air pollutant is

A. C O_2 B. ash

 $\mathsf{C.S}O_2$

D. CO

Answer:

48. What are the alternative ways to increase

the underground water resources?

A. Soaking pits

B. Closing boar wells

C. Soaking tanks

D. A or C

Answer:

49. Expand ICRISAT.

A. India Crop Reaserch Institute of Semi

Arid Tropics

B. International Crop Research Institute for

Semi Arid Tropics

C. India Crop Reaserch Institute of Science

and Technology

D. International Reserach Institute of

Science and Technology

Answer:



50. In United States nearly one - third of the iron is produced from old automobiles. What is the conservation method they are following

A. Reduce

B. RE-use

C. Recycle

D. Restore

Answer:



51. If we utilize the fuel at the same rate which we are utilizing now, we never get fuel for our vehicles in the nearest future. So in order to conserve the fuel you should not do this.

A. Using bicycle for short distances

B. Using public transport for long journey

C. Encouraging the usage of personal

vehicles

D. Walking as far as possible

Answer:

Watch Video Solution

52. What method do you prefer to increase ground water table ?

A. dig wells

B. dig canals

C. dig roads

D. dig per colation pits.

Answer:

Watch Video Solution

53. Which among the following is soil

conservation method ?

A. Contour trenches

B. Growing grass plants

C. Crop - rotation system

D. All the above

Answer:

Watch Video Solution

54. You have installed LED bulbs inspite of other bulbs. The conservative method regarding environment is...

A. Reduce

B. Reuse

C. Recycle

D. Renew

Answer:

Watch Video Solution

55. Farmers of Gollapalli Implemented some methods to achievve sustainability in frarming. Some of them are......, br. contour strip method

Broad furrow method

More water consume techniques

Micro irrigation techniques

A. (i), (ii),(iii)

B. (i),(ii)

C. (i) only

D. All are correct

Answer:

56. What is percolation tank?

A. Providing water to Agriculture

- B. Increasing ground water level
- C. Storage of rain water
- D. Control of floods in rainy season

Answer:



57. Concept that belongs to '3R' necessary for Environment Control of floods in rainy fseason.

- A. Prepration of plates with bananaa leaves
- B. Usage of grass bags only
- C. Reduce buying use and throw articles
- D. Having underground sewage system

Answer:

58. Read the following sentences.

Digging contour field bunding horizontally

Glircidia plants store nitrogen in soil

Crop yield is measured in T.M.C.

Supply of water by sprinklers is called micro irrigation

What are the correct sentences mention above ?

A. 1,2,3

B. 2,3,4

C. 1,3,4

D. 1,4

Answer:

Watch Video Solution

59. Which one of the following can be recycled

?

A. a is false, b is true

B. a is true, b is false

C. both a and b false

D. both a and b false

Answer:

Watch Video Solution

60. Bauxite is a mineral for the extraction of

- A. People disliked development
- B. People want to obtain them
- C. People afraid of bests due to mining
- D. Problem arise in environment

Answer:



61. Switch of lights whenever they are not needed

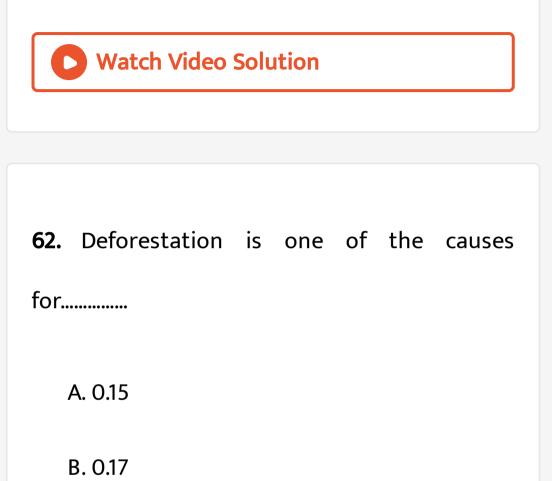
A. To conserve electricity

B. Durability of appliances

C. More lights are not neede

D. It is good to stay in dark

Answer:



C. 0.14

D. 0.16





63. The people of Rajsthan who saved forests

are....

A. Vishnavas

B. Shaivas

C. `Chenchus

D. Bishnois





64. How much fresh water is available on the earth?

A. a, b both are true

B. a is true, b is false

C. a is false, b is true

D. a, b both are false

Answer:



65. Consider the following.

Some natural resources are renamed

Fossil fuels will exhaust due to over usage

A. both a,b are true

B. a is true, b is false

C. a is false, b is true

D. a, b both are false

Answer:



66. Which of following is not concerned with the forests ?

A. Forests are habitat for plants and animals

B. Forests are the lungs for world

C. We will get numerous products from

forests

D. Deforestation accounts for 20 % off the

world's green house gas emissions.

Answer:

Watch Video Solution

67. Consider the following sentences.

Nearly 36 million acres of forest land is

destructed every year.

All the works will be fulfilled due to deforestation.

A. both a, b are true

B. a is true, b is false

C. a is false, b is true

D. a, b both are false

Answer:

68. Which of the following is not correct regarding Amrita Devi ?

A. She fought against king.

B. she fought Along with her daughters

and villagers particupated.

C. It is a set of 29 rules to conserve nature's

resources that every Bishnoi vows to

protect.

D. Amritha Devi decided to sell the trees to

the king.

Answer:



69. What should Jaya do to not bring the

polythene covers to house ?

A. She shouldn't go to market

B. She has to use cloth bag

C. To cultivate vegetables in the houes only

D. After using polythene, she has to throw

them away

Answer:

Watch Video Solution

70. I am a plant. I am making the soil nitrogen

rich. Who am I?

A. field bunds

B. fields

C. prevent pollution

D. prevent weeds

Answer:

Watch Video Solution

71. Which of the following countries who conserve the forests by reusing waste paper, card boards..

A. India, Pakistan

B. China, Japan

C. China, Mexico

D. America, Australia

Answer: The grass plant which grow fast....

Watch Video Solution

72. Rajaiah harvested corn plants in one row and wheat in another row in his crop field.

What type of harvesting method that he followed ?

A. Contour harvesting

B. Broad bed hrveting

C. Selective harvesting

D. Hybridization

Answer:

73. The agency that minds conservation of under ground water

A. Centre for Cellular and Molecular Biology

B. Centre for Advanced Studies in

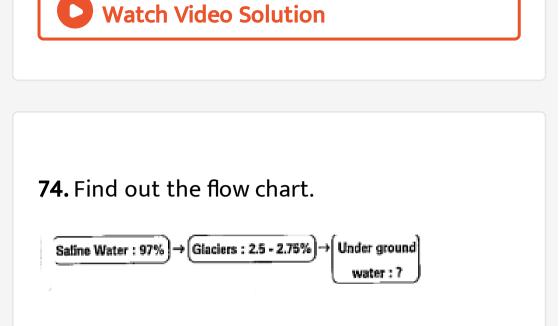
Computers

C. Centre for World Solidarity

D. Centre for Worlds Solidarity

Answer: Centre for Indian Water Works





A. 0.0001

B. 0.032

C. 0.7-0.8%

D. 0.042

Answer:





75. This logo shows what ?



A. Reuse

B. Reduce

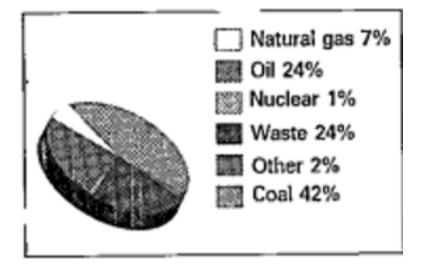
C. Recover

D. Recycle

Answer:

Watch Video Solution

76. Observe the picture



Which resource is utilised in less percentage in India?

A. Coal

B. Natural gas

C. Atomic energy

D. Petroleum

Answer:

Watch Video Solution

77. More ferilizers are added to enhance the percenage of soil nitrogen.

Gliricidia plants can help in adding nitrogen in

the soil

A. both a, b are true

B. a is true, b is false

C. b is true, a is false

D. both a, b are false

Answer:

Watch Video Solution

78. What are the green house gases ?

A. both a and b are true b explain a

B. both a and b are true b doesnot explains

а

C. b is true, a is false

D. both a, b are false

Answer:

Watch Video Solution

79.are normally earthen dams with masonry structures where water may over-

flow.

- A. Percolation tanks
- B. Soaking pits
- C. Rain water pit
- D. Watershed tanks

Answer:



80. Which of the following is concerned with

micro irrigation ?

A. Drip

B. Tanks

C. Sprinklers

D. A and C

Answer:

Watch Video Solution

81. To store the rain water has to be dug.

A. Percolation tanks

B. Soaking pits

C. Small canal

D. Water shed

Answer:

Watch Video Solution

82.97 % of water on earth is.....

A. fresh water

B. underground water



D. saline water

Answer:



83. The land area between the two rivers or

canals is

A. Delta

B. Water shed

C. Glacier

D. Dam

Answer:



84. Suggest some ways in which you and your

friends would like to manage a resource.

Watch Video Solution

85. In view of 3R's suggest a few good habits

to conserve environment?

Watch Video Solution

86. Collect information about cutaneous respiration in frog. Prepare a note and explain them in your classroom.

Watch Video Solution

87. The BP Statistical Review of World Energy in June measured total global oil at 188.8 million tonnes, from proved oil resources at the end of 2010. This is only enough for oil to last for the next 46.2 years, What measures should be taken to conserve oil ? What will happen if we do not conserve it ?

Watch Video Solution

88. The form of fluorine in ground water

A. Depletion

B. Increase

C. Overflow

D. All

Answer:

Watch Video Solution

89. Reuse of waste paper is done people of

A. China

B. India

C. Australia

D. None of these

Answer:

Watch Video Solution

90. What is the state of Minerals as a resource

? Mention two methods that helps to conserve

mineral resources.

A. progress

B. increasing

C. A and B

D. danger

Answer:

Watch Video Solution

91. plants are used for production

of biofuels.

A. Jatropa

B. Pongamia

C. Nerium

D. Borassus

Answer:

Watch Video Solution

92. How would recharging dried up wells help

farmers of Village - 2?

- A. Percolation tanks
- B. Soaking pits
- C. Watershed projects
- D. All the above

Answer:

Watch Video Solution

93. On which river Sri Ram Sagar was constructed ?

- A. Hirakud project
- B. Pochampadu Pfoject
- C. Galeru Nagari Project
- D. Polavaram project

Answer:

Watch Video Solution

94. The continent which has no forests is

A. Arctic

B. South America

C. Antarctica

D. North America

Answer:

Watch Video Solution

95. Contour strip is the method for conserving

A. Soil

B. Water

C. Air

D. Vegetation

Answer:



96. A biosphere reserve in India which is in

world's biosphere network

A. Wild animals

B. Wild land

C. Natural vegetation

D. All the above

Answer:



97. The main cause of mismanagement of

natureal resuorces is because of

A. A large increase Inpopulation

B. The conversion of land for food crops

C. Exploitation of minerals

D. A great demand for fossil fuels

Answer:



98. Amrita Devi Bishnoi Award is given to the

people who worked on

A. ASal trees

B. Pine trees

C. Khejri trees

D. Alpine meadows

Answer:



99. How is fresh water distributed over the globe?

A. Globally available stocks are insufficient

B. Uneven distribution on earth

C. No regeneration of requierd quantity

through hydrological cycle

D. All the above

Answer:

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100. Mangrove trees respire with their _____

A. Seedless plants

B. Mangrove plants

C. Gliicidia plants

D. Monocot plants

Answer:

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101. What does the recycle logo indicate on item ?

A. Item can be recycled after use

B. Items can be thrown away after use

C. Items can be burnt after use

D. None of the above

Answer:



102. The average fall of ground water in A.P.

during 1998-2002.

A. Wheat

B. Paddy

C. Maize

D. Cotton

Answer:



103. What is the reason for the depletion of

ground water table ?

A. Indiscriminate tapping of ground water

by too much drilling

B. Construction of deep tube wells

C. Construction of bore wells

D. All the above

Answer:

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104. What is sustainable development? How is

it useful in natural resource management?

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105. What is sustainable development ? How is

it useful in natural resource management?



106. Why should we conserve forests and wild

life ?



107. Write about the four 'R's that can save

environment.

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