



BIOLOGY

BOOKS - SURA BIOLOGY (TAMIL ENGLISH)

ENVIRONMENTAL ISSUES

Evaluation

1. Which of the following would most likely help to slow down the greenhouse effect?

A. Converting tropical forests into grazing

land for cattle.

B. Ensuring that all excess paper packaging

is buried to ashes.

C. Redesigning landfill dumps to allow

methane to be collected.

D. Promoting the use of private rather than

public transport.

Answer: A::B::C::D

2. With respect to Eichhornia

Statement A: It drains off oxygen from water

and is seen growing in standing water.

Statement B: It is an indigenous species of our country.

A. Statement A is correct and Statement B

is wrong.

B. Both Statements A and B are correct.

C. Statement A is wrong and Statement B is

correct.

D. Both statements A and B are wrong.

Answer: A::B::C::D

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3. Find the wrongly matched pair

A. Hotspots - Western ghats

B. Ex-situ Conservation - Zoological parks

C. Sacred groves - Saintri hills of Rajasthan

D. Alien sp. of India - Water hyacinth

Answer: A::C::D



4. Depletion of which gas in the atmosphere can lead to an increased incidence of skin cancer?

A. Ammonia

B. Methane

C. Nitrous oxide

D. Ozone

Answer: D

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5. One green house gas contributes 14% of total global warming and another contributes 6%. These are respectively identified as

A. N_2O and CO_2

B. CFCs and N_2O

C. CH_4 and CO_2

D. CH_4 and CFCS

Answer: A::B::C::D

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6. One of the chief reasons among the following for the depletion in the number of species making endangered is

A. over hunting and poaching

- B. green house effect
- C. competition and predation
- D. habitat destruction

Answer: A::B::C::D



7. Deforestation means

A. growing plants and trees in an area

where there is no forest

B. growing plants and trees in an area

where the forest is removed

C. growing plants and trees in a pond

D. removal of plants and trees

Answer: A::D

8. Deforestation does not lead to

A. Quick nutrient cycling

B. soil erosion

C. alternation of local weather conditions

D. Destruction of natural habitat weather

conditions

Answer: A::C

9. The unit for measuring ozone thickness

A. Joule

B. Kilos

C. Dobson

D. Watt

Answer: B::C::D



10. People's movement for the protection of environment in Sirsi of Karnataka is

A. Chipko movement

B. Amirtha Devi Bishwas movement

C. Appiko movement

D. None of the above

Answer: A::C

11. The plants which are grown in silivpasture

system are

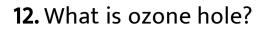
A. Sesbania and Acacia

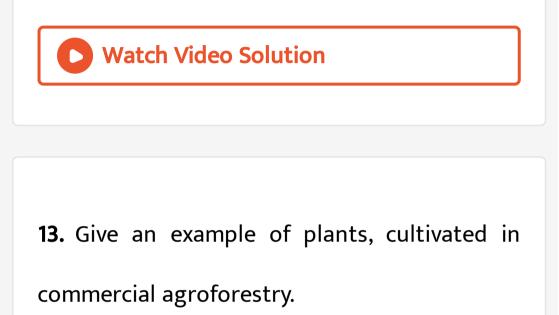
B. Solenum and Crotalaria

C. Clitoria and Begonia

D. Teak and sandal

Answer: A::B::C::D





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14. Expand CCS.

15. How do forests help in maintaining the climate?



16. How do sacred groves help in the conservation of biodiversity?



17. Which one gas is most abundant out of the

four commonest greenhouse gases? Discuss

the effect of this gas on the growth of plants?



18. Suggest a solution to water crisis and explain its advantages.



19. Explain afforestation with case studies.



20. What are the effects of deforestation and

benefits of agroforesty?

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Botany Long Version Questions For Pure Science Group 1. The lake which was built in British era and is

near the Indian Army Base

A. Veeranam lake

B. Maduranthagam lake

C. Chembrambakkam lake

D.

Answer: A::B::C::D

The invasive species introduced in India
 from Philippines

A. Lantana

B. Prosopis

C. Parthenium

D. Kappaphycus

Answer: A

3. Cash crops like sesame and pearl millet are

inhibited by the invasive plant

A. Kappaphycus

B. Parthenium

C. Lantana

D. Prosopis

Answer: A::B

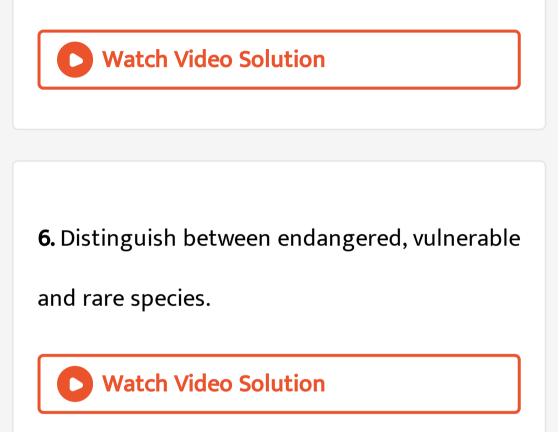
4. IUCN red list categories has developed criteria for threatened species. The criteria 'C' refers to

- A. Geographic range
- B. Quantitiative analysis
- C. Small population size and decline
- D. population reduction

Answer: A::B::C::D



5. What are agrochemicals?



Additional Questions And Answers

1. The gases that capture heat are called green

house gases which include.

A. only CO_2

B. Methane

C. N_2O and CFC

D. All of these

Answer: A::B::C::D

2. The International treaty called the Montreal

protocol was held in.

A. America

B. Italy

C. Canada

D. England

Answer: A::C::D

- **3.** Aforestation means.
 - A. Planting of trees
 - B. Removal of Treas and Plants
 - C. Conversion of forest area into non forest

area

D. Supplying of seedlings

Answer: A

4. Environmental impact assessment is an

A. Environment management tool

B. Trees and plants management tool

C. Rain harvesting management tool

D. Supporting tool for biodiversity

Answer: A



5. Give an example of Microalgae.

A. Chlorella

- B. Latifolia
- C. Hardwickia
- D. Neuracanthus

Answer: A::C



6. Nitrates from fertilizers reduces oxygen uptake results in.

A. Acquired Immuno deficiency syndrome

- B. Blue baby syndrome
- C. Down syndrome
- D. Acute chest syndrome

Answer: A::B::D



7. TAP stands for

A. Tamil Nadu Administration Project

B. Tamil Nadu Achievement Project

C. Tamil Nadu Afforestation Project

D. Tamil Nadu Agrochemical Project

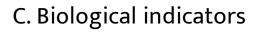
Answer: A::C::D

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8. Plant indicators also referred as

A. Chemical indicators

B. Oxygen indicators



D. Environmental indicators

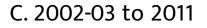
Answer: A::B::C::D

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9. Tree cultivation in private lands was implemented in the state from

A. 2007-08 to 2011

B. 2004-05 to 2010



D. 2008-09 to 2012

Answer: A::B::D

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10. _____ has single - handedly planted a

forest in the middle of a barren wasteland.

A. Jawaharlal Nehru

B. Jadav "Molai" Payeng

C. Sundarlal Bahuguna

D. Panduranga Hegde.

Answer: A::B::D

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11. Which of the following is normally not an

atmospheric pollutant

A. CO

 $\mathsf{B.}\,SO_2$

 $\mathsf{C}.\,CO_2$

D. Hydrocarbons

Answer: B::C

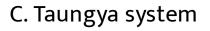
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12. _____. is an integration of trees, crops

and livestock on the same plot of land.

A. Social forestry

B. Jhum



D. Agroforestry

Answer: A::D



13. The main atmospheric layer near the surface of earth is

A. Troposphere

B. Mesophere

C. Ionosphere

D. stratosphere

Answer: A



14. Lichens are useful in the studies of atmospheric pollution because they

A. can grow is greatly polluted atmosphere

atmosphere

C. Effectively purify the atmosphere

D. very sensitive to pollutants

Answer: A::D

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15. Biochar is another long term method to

store

A. Hydrogen

- B. Oxygen
- C. Heavy metal
- D. Carbon

Answer: A::B::C::D



16. _____ is the most damaging type of UV radiation.

A. UV A

B. UV B

C. UV C

D. UV II

Answer: C

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17. Montreal protocol was based on _____.

A. CDM

- B. Carbon sequestration
- C. Ozone depletion
- D. Global warming

Answer: C::D

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18._____ is a indicator for Nitrate.

A. Robinia

B. Petunia

C. Lichens

D. Gladiolus

Answer: A::B

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19. _____ is not directly linked to ozone

depletion.

A. Asthma

B. Mutations

C. Global warming

D. Soil fertility

Answer: D



20. Jadav "Molai" Payeng transformed ____

into a forest.

A. Sundarbans

B. Majuli

C. Saintri hills

D. Sirsi

Answer: A::B



21. Ginkgo biloba belongs to

category.

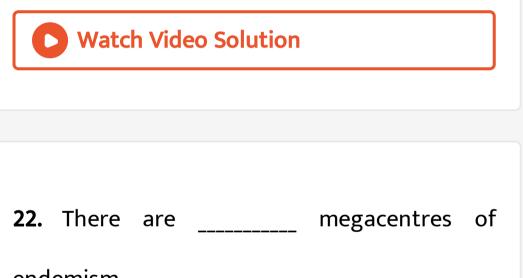
A. EX

B. CR

C. EW

D. LC

Answer: C



endemism.

A. 3

B.4

C. 7

D. 6

Answer: A::C



23. _____ is not helpful in carbon

sequestration.

A. Chlamydomonas

B. Rhizobium

C. Cinnamomum

D. Chlorella

Answer: B



24. is the 100th Satellite launched to

watch border surveillance.

A. INSAT 3DR

B. SCATSAT-I

C. CARTOSAT- 2

D. GSAT - 6A

Answer: A::B::C



25. (I) The gases that capture heat are called

Green House Gases.

(II) Burning fossil fuels, releases CO_2 and CH_4

(III) Clouds and Dust particles can also produce Green House effect.

(IV) Rise in global temperature which causes

sea levels to rise as polar ice caps

A. I, II and IV only

B. I only

C. I, II, III and IV

D. II, III and IV only

Answer: A::C::D

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26. (I) The ozone layer is also called as ozone hole.

(II) Ozone is a colourful gas.

(III) The upper layer of ozone is called as bad ozone.

(IV) The ozone layer of stratosphere is called as good ozone.

A. I, II and IV only

B. I only

C. I, II and IV only

D. IV only

Answer: D

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27. Identify the correct statements from the below.

(I) DU is the unit of measurement for total ozone.

(II) The production of woody plants combined with pasture is referred as Silvopasture system.

(III) Agro - chemicals are ecofriendly.

(IV) Agro - forestry can be used as farm forestry.

A. I, II and IV

B. I only

C. I, III and IV

D. IV only

Answer: A



28. CHOOSE THE INCORRECT STATEMENTS:

A. Methane is 10 times as effective as CO_2

at trapping heat in the atmosphere.

- B. Methane sources are attributed to paddy cultivation.
- C. N_2O is produced from biological

sources of soil and water due to

microbial actions and rain forests.

D. N_2O is naturally produced in Oceans.

Answer: A::B::C



29. CHOOSE THE INCORRECT STATEMENTS:

A. Ozone layer is a region of Earth's

stratosphere.

B. Ozone layer is also called as the ozone

shield.

C. Ozone acts as a protective shield.

D. Ozone is a green colour gas.

Answer: A::C::D

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30. Assertion (A) : The ozone shield is being damaged by chemicals.

Reason (R) : Release of CFCs destroy ozone molecules.

A. Assertion and Reason is true and Reason

is correct explanation of Assertion.

B. Assertion and Reason is true but Reason

is not correct explanation of Assertion.

C. Assertion is true Reason is false.

D. Both Assertion and Reason are false.

Answer: A::C::D

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31. Assertion (A) : The decline in the thickness of the ozone layer over restricted area is called ozone hole.

Reason (R) : An Ozone hole is really not a hole but rather a thinning of the ozone layer in the stratosphere.

A. Assertion and Reason is true and Reason

is correct explanation of Assertion.

B. Assertion and Reason is true but Reason

is not correct explanation of Assertion.

C. Assertion is true Reason is false.

D. Both Assertion and Reason are false.

Answer: A::C::D

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32. Assertion (A) : Agroforestry is an integration of trees, crops and livestock on the same plot of land.

Reason (R) : Nutrient cycling between species

improves and organic matter is maintained in

agroforestry.

A. Assertion and Reason is true and Reason

is correct explanation of Assertion.

B. Assertion and Reason is true but Reason

is not correct explanation of Assertion.

- C. Assertion is true Reason is false.
- D. Both Assertion and Reason are false.

Answer: A::B::C::D



33. Agroforestry benefits.

Assertion (A) : Nutrient cycling between species improves and organic matter is maintained.

Reason (B) : Trees provide micro climate for crops and maintain $O_2 - CO_2$ balance.

A. Assertion and Reason is true and Reason

is correct explanation of Assertion.

B. Assertion and Reason is true but Reason

is not correct explanation of Assertion.

C. Assertion is true Reason is false.

D. Both Assertion and Reason are false.

Answer: A::C::D

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34. Biodiversity impacts can be assessed by

Assertion (A) : Fragmentation and Isolation.

Reason (B) : Soil mapping.

A. Assertion and Reason is true and Reason

is correct explanation of Assertion.

B. Assertion and Reason is true but Reason

is not correct explanation of Assertion.

C. Assertion is true Reason is false.

D. Both Assertion and Reason are false.

Answer: A::C

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35. CHOOSE THE CORRECT PAIR :

A. Protein Bank - Acacia nilotica

B. Agroforestry - Alibizzia lebbek

C. Social forestry - Acacia spp.

D. Deforestation - Gliricidia Sepium

Answer: A::B::C



36. CHOOSE THE CORRECT PAIR :

A. Blue baby Syndrome - Pollutants

B. Jadav "Molai" Payeng - Forest man of

India

C. Bio - magnification - Cyanosis

D. Toxic substance - Teak

Answer: A::B::D

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37. CHOOSE THE CORRECT PAIR :

A. Prosopis juliflora - Invasive species

B. Mosquitoes - Lantana camara

C. Anopheles - South America

D. Dermatits - Cattle

Answer: A::C

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38. CHOOSE THE CORRECT PAIR :

A. Pinus - Fluoride pollution

B. September 16 - World Ozone Day

C. Lichens - Nitrate

D. Gladiolus - Black locust tree

Answer: A::B::D

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39. CHOOSE THE CORRECT PAIR :

A. Eichhornia crassipes - South America

- B. Lantana camara England
- C. Parthenium hysterophorus South Africa
- D. Prosopis juliflora South Africa

Answer: A::C

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40. CHOOSE THE CORRECT PAIR :

A. Lichens - Heavy metal

B. Chrysanthemum - Nitrate

C. Gladiolus - Sulphurdioxide

D. Black locust tree - Flouride

Answer: A::B::C

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41. CHOOSE THE INCORRECT PAIR:

A. Ozone - Colourless gas

B. Troposphere - Bad ozone

C. Stratosphere - Good ozone

D. Green house effect - Dobson unit

Answer: B::C::D

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42. CHOOSE THE INCORRECT PAIR:

A. Montreal protocol - Canada

B. Plant indicators - State of environment

C. Kyoto protocol - Clean development

mechanism

D. Ozone hole - Phyto indicators

Answer: A::C::D

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43. CHOOSE THE INCORRECT PAIR:

A. Solid waste management - Treating solid

wastes

B. Liquid waste management - Treating

liquid wastes

C. Sewage - Contains non polluted water

D. Solid waste management - Incineration

and pyrolysis

Answer: A::C::D

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44. CHOOSE THE INCORRECT PAIR:

A. EX - Extinct

B. Vu - Vulnerable

C. CR - Currently endangered

D. DD - Data deficient

Answer: A::C::D

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45. Another name for green house effect

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46. Impact of global warming seen in Gulf of
Mannar
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47. A green house gas naturally produced in
oceans
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48. Another name for ozone layer



49. A colourless gas in the troposphere which

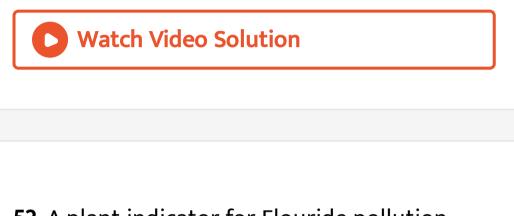
protects the living organisms from UV

radiations _____.

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50. The unit for measuring ozone thickness

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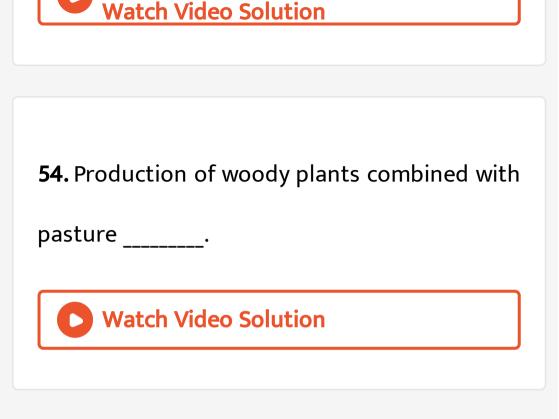
52. A plant indicator for Flouride pollution



53. _____. is an integration of trees, crops

and livestock on the same plot of land.



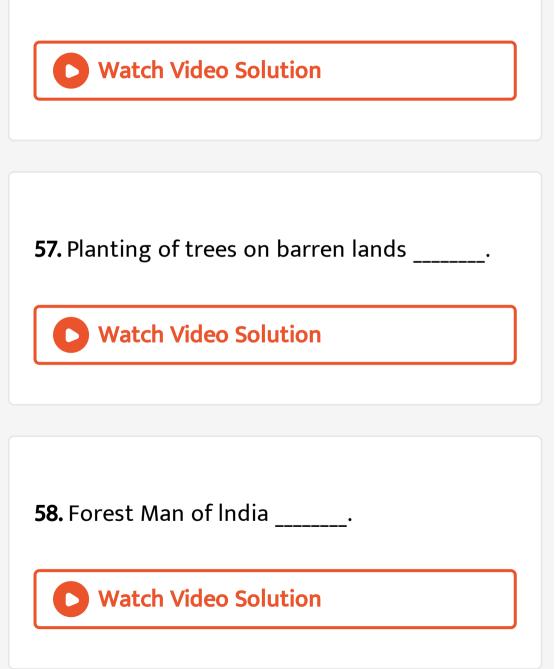


55. Planting of multipurpose trees in farmland

mainly for fodder _____.

56. Management of forests and afforestation

on barren lands___



59. Increase in concentration of pollutants in

consecutive levels of food chain ___

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60. What is a invasive species? Explain with an

example.

61. An invasive species which has caused eutrophication in water bodies.
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62. A invasive species introduced to counter

desertification _____.

63. A plant identified as the worst invasive species as per global Invasive species database

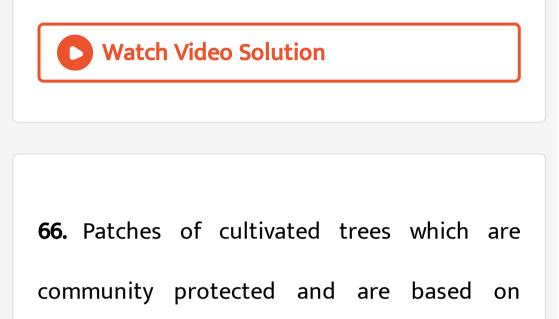


64. Conservation and management of genetic

resources in their natural habitat _____.



65. Name a biosphere reserve in Tamil Nadu __.



religious belief ____.



67. Method of conservation where species are

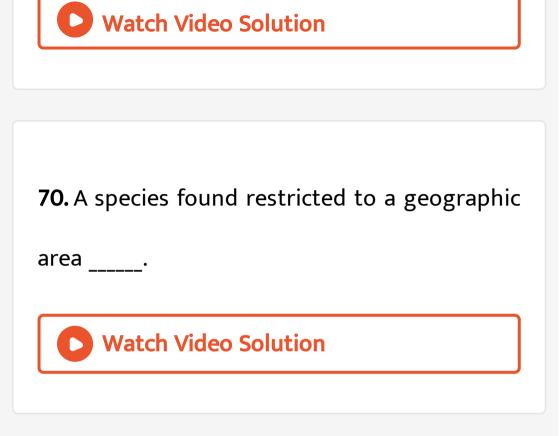
protected outside their natural environment



68. Where is headquarters of IUCN located?



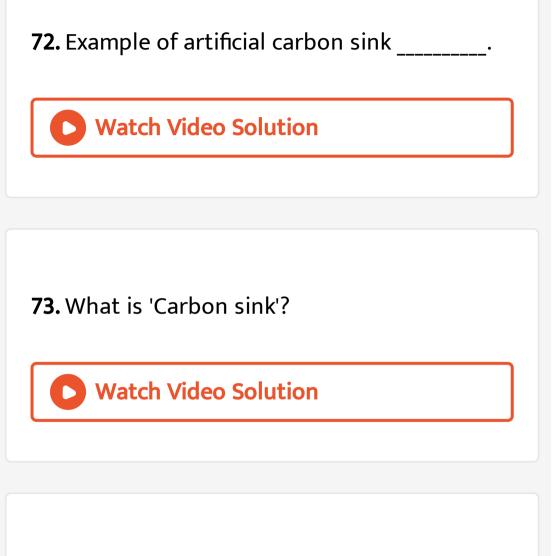
69. Who lead the chipko movement _____



71. A system with capacity to accumulate more

atmospheric carbon at a given time interval

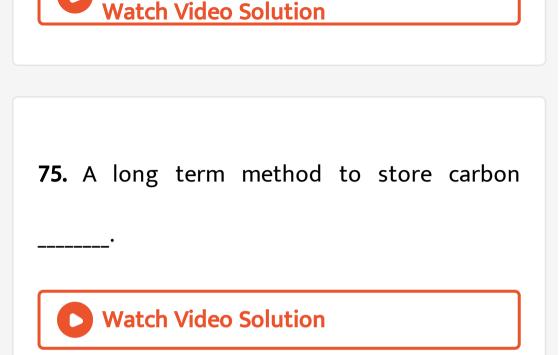




74. Process of capturing and storing CO_2

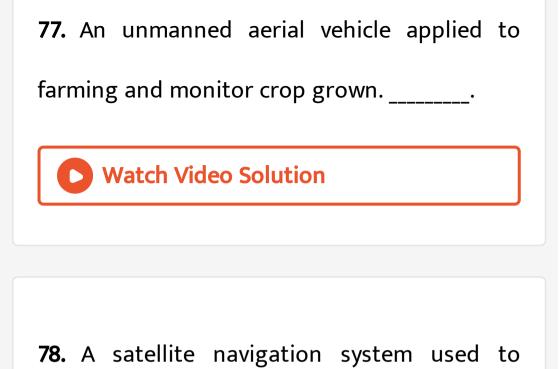
from the atmosphere _____.





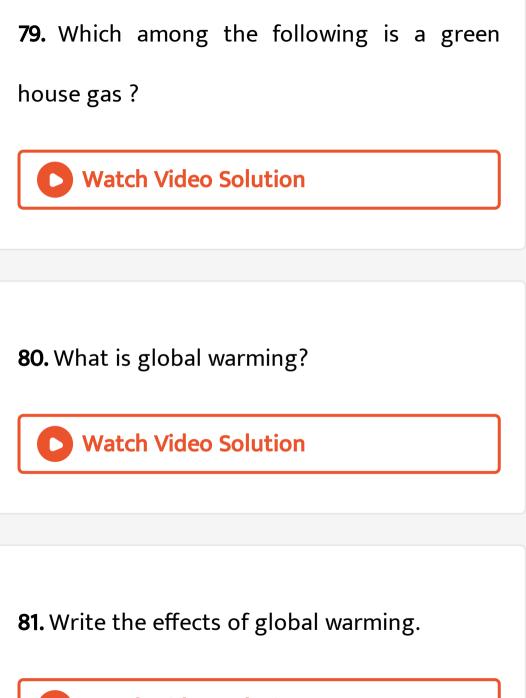
76. Act of observing and assessing the current

state of an ecosystem _____.



determine ground position of a object





82. What are the sources of green house gases

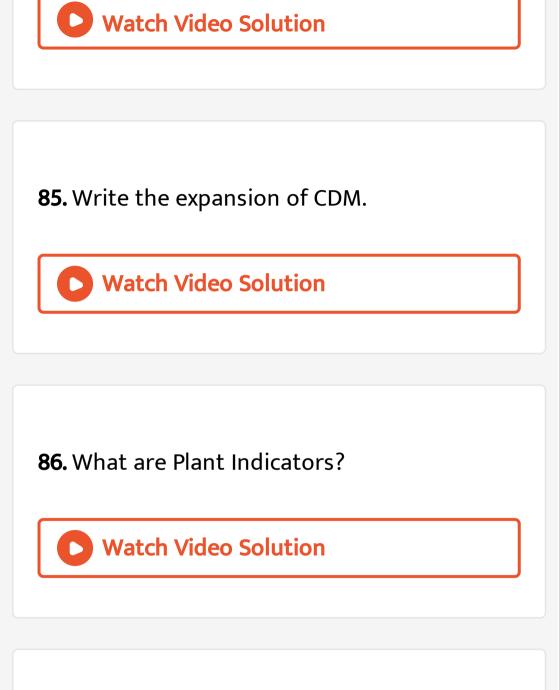
emission?



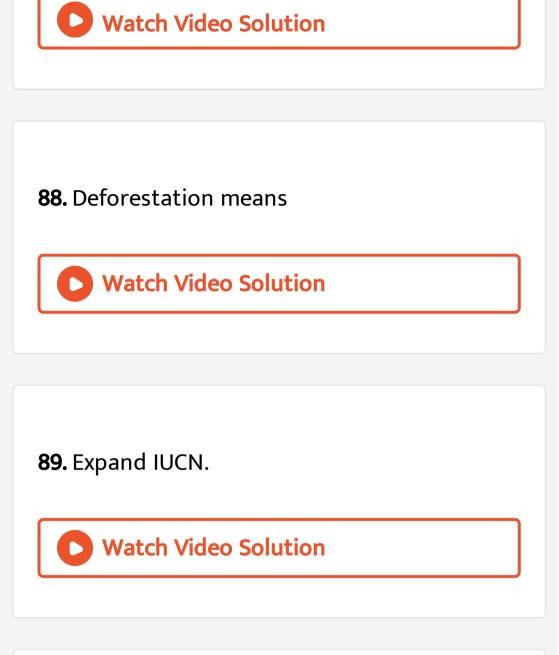
83. What is an Ozone Shield?



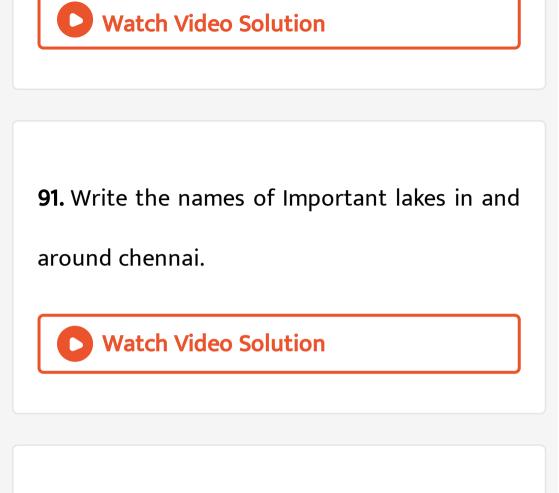
84. What are Bad and Good Ozone?



87. Define Silvopasture system.



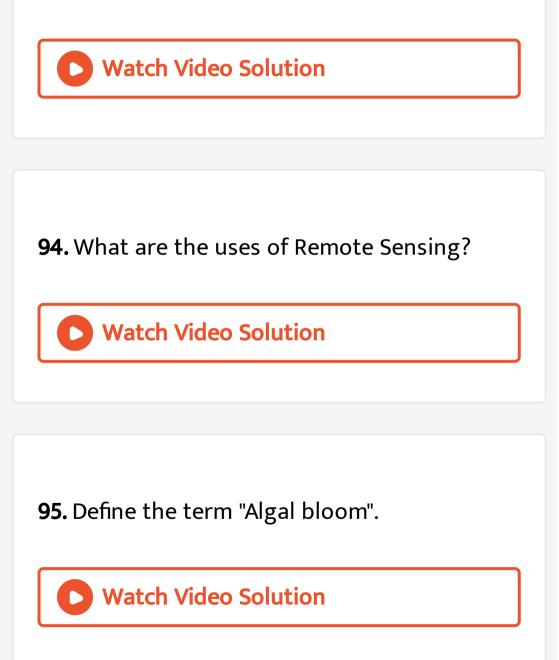
90. What is Biochar?



92. What is GIS and write its expansion?



93. What is the importance of GIS?



96. Write the three stages involved in Sewage

Treatment.

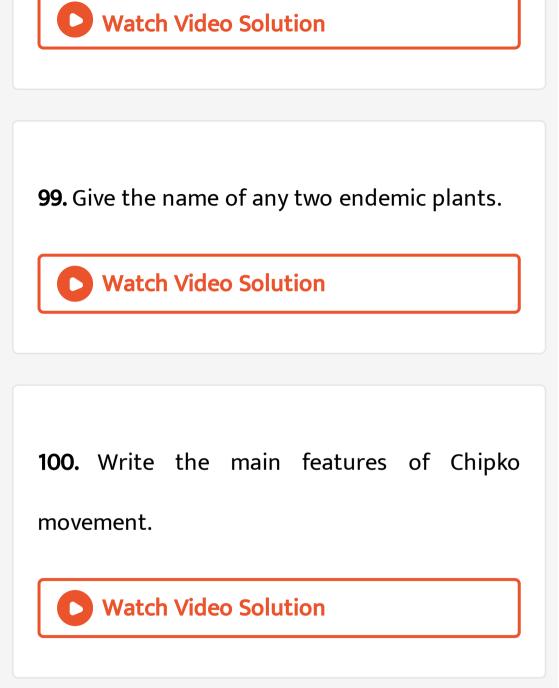


97. Write two benefits of Rainwater Harvesting.

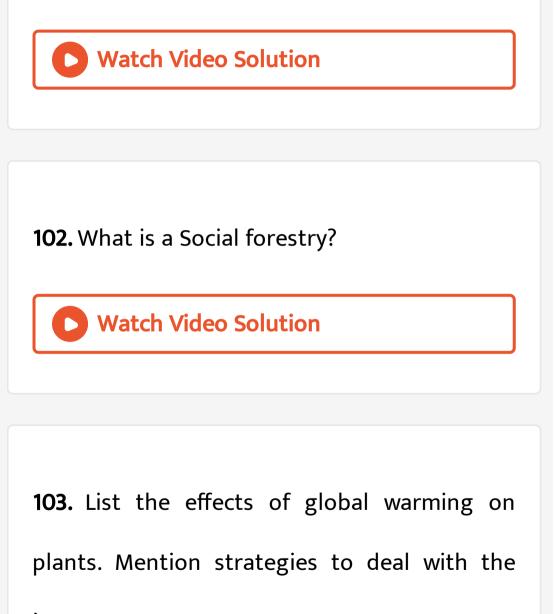
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98. A species found restricted to a geographic

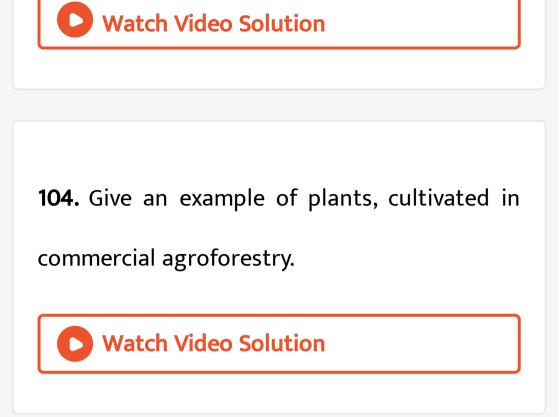
area _____.



101. What is an Agroforestry?



issue.



105. Expand CFP.



106. What is Bio-magnification?



107. How Human activities lead to produce the

green house effect?

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108. Write the effects of global warming.

109. What are plant indicators? Give example.

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110. What is a invasive species? Explain with an example.



111. Write the main features of Chipko movement.

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112. What is Remote sensing and write their specific uses?



113. Write a short note on Bio monitoring.

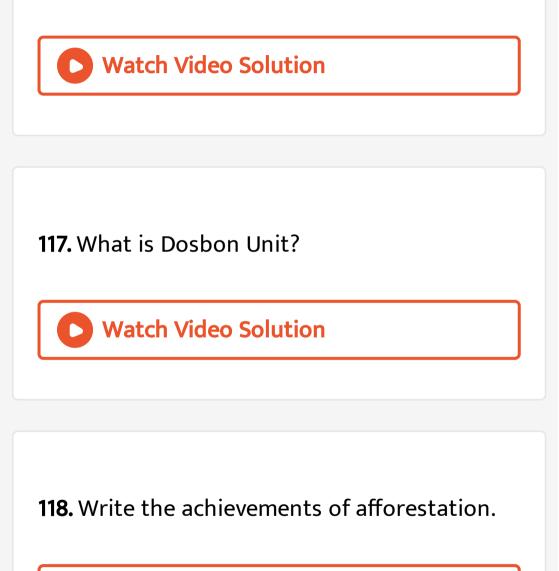


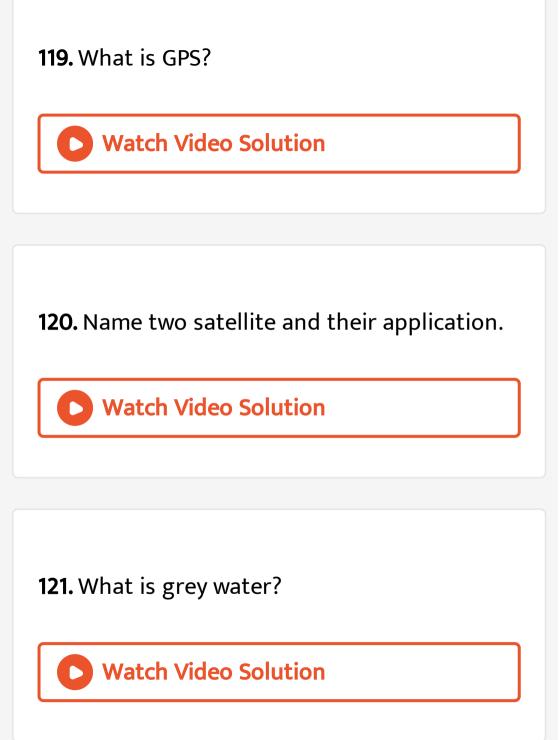
114. How can Bio-diversity impacts be assessed?

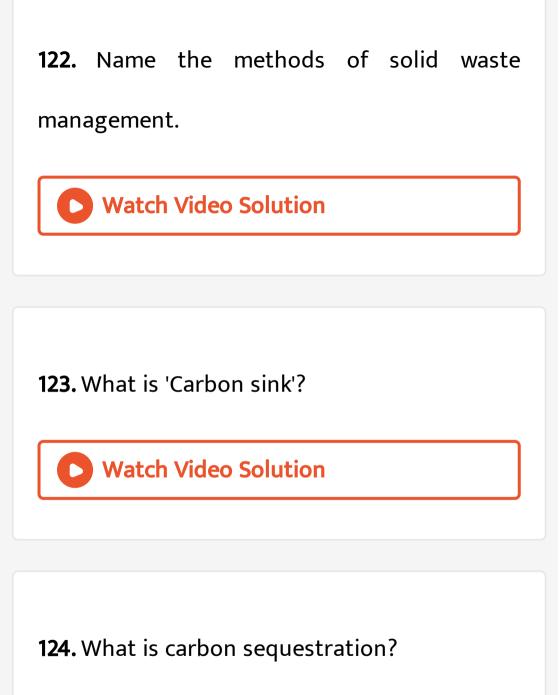
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115. Write the benefits of EIA to society.

116. Write the importance of lakes.







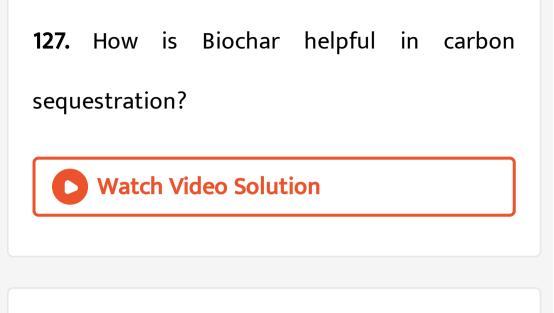
125. Write a note on carbon foot print.

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126. Mention some practices to reduce carbon

foot print.



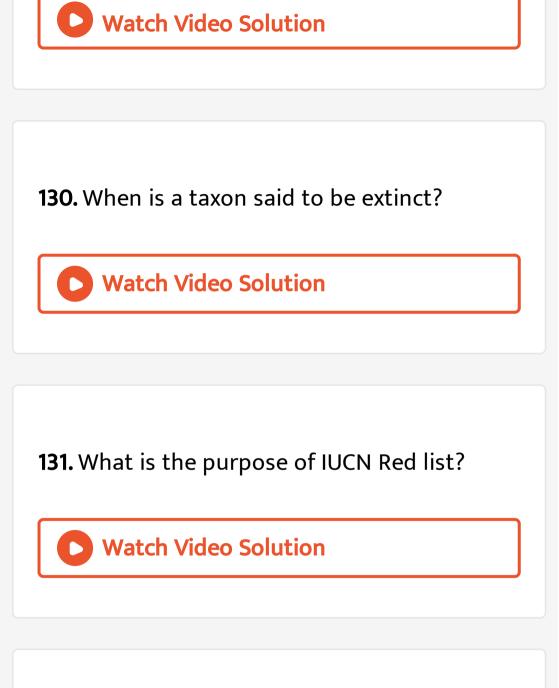


128. What are the advantages of biochar for

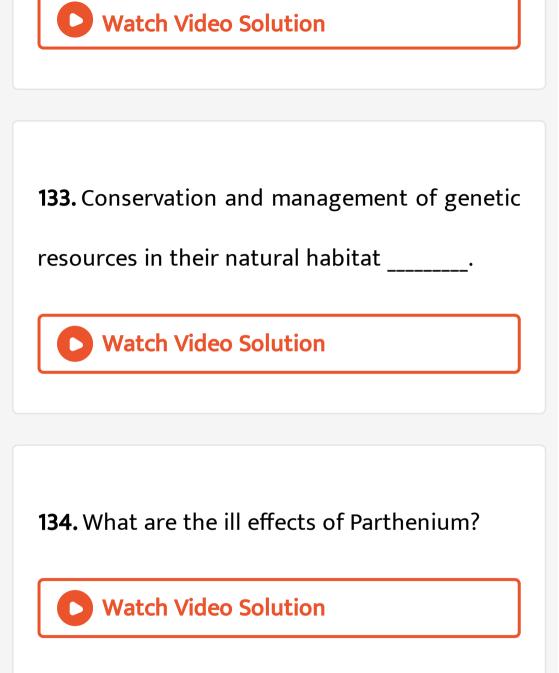
the plants?



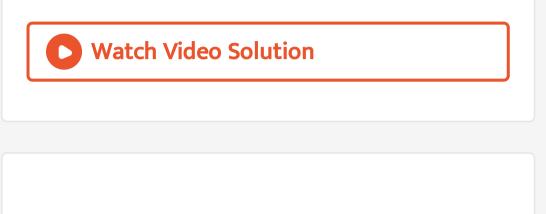
129. What is geological sequestration?



132. What is Ex-situ conservation?



135. What are the uses of prosopis juliflora?



136. How is the spread of Lantana being controlled?

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137. List the negative impact of agrochemicals.

138. What is Land fill?

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139. What is the impact of Eicchornia on water

bodies?



140. Write the effects of ozone depletion.



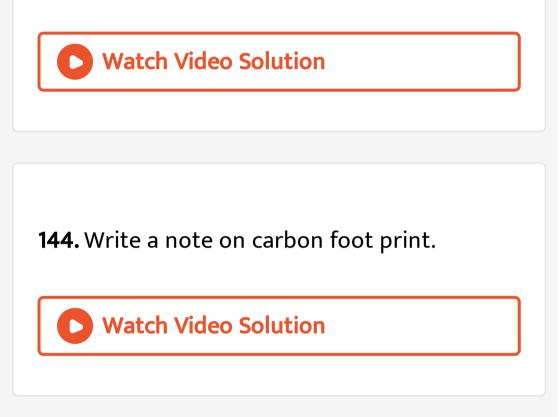
141. List the effects of global warming on plants. Mention strategies to deal with the issue.



142. What are the effects of deforestation and

benefits of agroforesty?

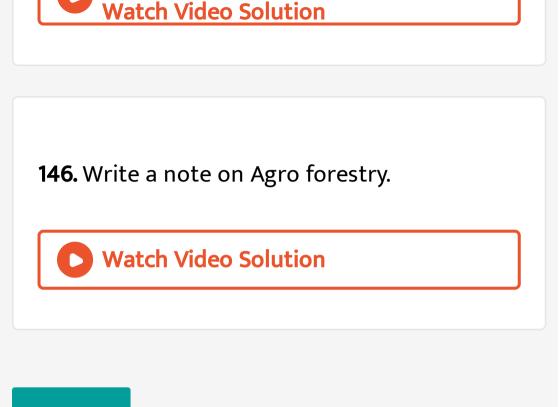
143. Write the main objectives of Afforestation.



145. What is a invasive species? Explain with an

example.





Unit Test

1. Find the wrongly matched pair.

A. Endemism - Species confined to a region

and not found anywhere else.

B. Hotspots - Western ghats

C. Ex-situ Conservation - Zoological parks

D. Sacred groves - Saintri hills of Rajasthan

Answer:

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Statement B: It is an indigenous species of our

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Answer:

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- B. Quantitiative analysis
- C. Small population size and decline
- D. population reduction

Answer:

4. One of the chief reasons among the following for the depletion in the number of species making endangered is

A. over hunting and poaching

B. green house effect

C. competition and predation

D. habitat destruction

Answer:



5. Assertion (A) : Agroforestry is an integration of trees, crops and livestock on the same plot of land.

Reason (R) : Nutrient cycling between species improves and organic matter is maintained in agroforestry.

A. Both assertion and reason are true. But reason is correct explanation of assertion B. Assertion is false but reason is true

C. Both assertion and reason are true

D. Assertion is true but reason is false

Answer:

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6. Choose the correct pair:

A. Protein Bank - Acacia nilotica

B. Agroforestry - Alibizzia lebbek

C. Social forestry - Acacia spp.

D. Deforestation - Gliricidia Sepium

Answer:



7. Choose the incorrect statement(s).

A. Methane is 10 times as effective as CO_2

at trapping heat in the atomosphere.

B. Methane sources are attributed to

paddy cultivation.

C. N_2O is produced from biological

sources of soil and water due to

microbial actions and rain forests.

D. N_2O is naturally produced in Oceans.

Answer:

8. People's movement for the protection of environment in Sirsi of Karnataka is

A. Chipko movement

B. Amirtha Devi Bish was movement

C. Appiko movement

D. None of the above

Answer:

9. _____. is an integration of trees, crops

and livestock on the same plot of land.

A. Social forestry

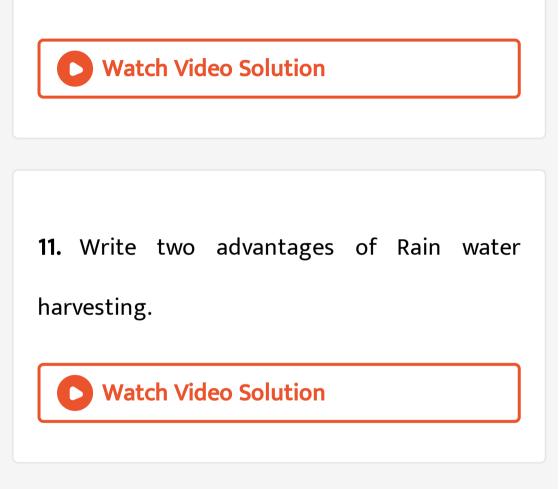
B. Jhum

C. Taungya system

D. Agroforestry

Answer:

10. Give four examples of plant indicators.



12. Write the effects of global warming.

13. What is 'Carbon sink'?

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14. Write the main objectives of Afforestation.