



BIOLOGY

BOOKS - SURA BIOLOGY (TAMIL ENGLISH)

ENVIRONMENTAL MANAGEMENT

Textbook Evaluation Fill In The Blanks

1. Deforestation leads to _____ in rainfall.



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2. Removal of soil particles from the land is called _____.



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3. Chipko movement is initiated against _____.



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4. _____ is a biosphere reserve in Tamilnadu.



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5. Tidal energy is _____ type of energy.



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6. Coal, petroleum and natural gas are called _____ fuels.



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7. _____ is the most commonly used fuel for the production of electricity.



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**Textbook Evaluation State Whether True Or False
Correct The Statements Which Are False**

1. Biogas is fossil fuel.



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2. Planting trees increases the ground water level.



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3. Habitat destruction causes loss of wild life.



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4. Nuclear energy is a renewable energy.



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5. Overgrazing prevents soil erosion.



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6. Poaching of wild animals is a legal act.



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7. National park is a protected park.



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8. Wild life protection act was established in 1972.



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Textbook Evaluation Match The Following

1. 



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Textbook Evaluation Choose The Correct Answer

1. Which of the following is/are a fossil fuel ?

i.Tar ii. Coal iii. Petroleum

A. I only

B. I and ii

C. ii and iii

D. I, ii and iii

Answer: C



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2. What are the steps will you adopt for better waste management ?

A. reduce the amount of waste formed

B. reuse of waste

C. recycle the waste

D. all of the above

Answer: D



3. The gas released from vehicles exhaust are

i. Carbon monoxide

ii. Sulphur dioxide

iii. Oxides of nitrogen

A. I and ii

B. I and iii

C. ii and iii

D. I, ii and iii

Answer: D



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4. Soil erosion can be prevented by

A. deforestation

B. afforestation

C. over growing

D. removal of vegetation

Answer: B



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5. A renewable source of energy is

A. petroleum

B. coal

C. nuclear fuel

D. trees

Answer: D



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6. Removal of upper layer of soil by wind and water is called _____ .

- A. no rainfall
- B. low rainfall
- C. rainfall is high
- D. none of these

Answer: C



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7. _____ are also called as inexhaustible energy resources.

A. wind power

B. soil fertility

C. wild life

D. all of the above

Answer: A



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8. Common energy source in village is

A. electricity

B. coal

C. biogas

D. wood and animal dung

Answer: D



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9. Green house effect refers to

- A. cooling of earth
- B. trapping of UV rays
- C. cultivation of plants
- D. warming of earth

Answer: D



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10. A cheap, conventional , commercial and inexhaustible source of energy is

A. hydropower

B. solar energy

C. wind energy

D. thermal energy

Answer: A



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11. Global warming will cause

A. raise in level of oceans

B. melting of glaciers

C. sinking of islands

D. all of these

Answer: D



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12. Which of the following statement is wrong with respect to wind energy ?

A. wind energy is a renewable energy

B. the blades of wind mill are operated with the help of electric motor

C. production of wind energy is pollution free

D. usage of wind energy can reduce the consumption of fossil fuels.

Answer: B



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Textbook Evaluation Answer In A Sentence

1. What will happen if trees are cut down ?



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2. What would happen if the habitat of wild animals of disturbed ?



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3. What are the agents of soil erosion ?



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4. Why fossil fuels are to be conserved?



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5. Solar energy is a renewable energy. How?



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6. How are e-wastes generated?



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Textbook Evaluation Short Answer Questions

1. What is the importance of rainwater harvesting?



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2. What are the advantages of using biogas?



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3. What are the environmental effect caused by sewage?



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4. What are the consequences of deforestation?



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Textbook Evaluation Long Answer Questions

1. How does rainwater harvesting structures recharge ground water?



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2. How will you prevent soil erosion?



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3. What are the sources of solid wastes? How are solid wastes managed?



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4. Enumerate the importance of forest.



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5. What are the consequences of soil erosion ?





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6. Why is the management of forest and wildlife resource considered as a challenging task?



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Textbook Evaluation Assertion And Reasoning

1. Assertion: Rainwater harvesting is to collect and store rain water.

Reason: Rain water can be directed to recharge the underground water source.

A. Both assertion and reason are true and reason is correct explanation of assertion.

B. Both assertion and reason are true but reason is not the correct explanation of assertion.

C. Assertion is true but reason is false.

D. Both assertion and reason are false.

Answer: A



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2. Assertion: Energy efficient bulbs like CFL must be used to save electric energy.

Reason: CFL bulbs are costlier than ordinary bulbs, hence using ordinary bulbs can save our money.

A. Both assertion and reason are true and reason is correct explanation of

assertion.

B. Both assertion and reason are true but reason is not the correct explanation of assertion.

C. Assertion is true but reason is false.

D. Both assertion and reason are false.

Answer: C



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



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2. What are the objectives for replacing non-conventional energy resources from conventional energy resources?



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3. Why is the Government imposing ban on the use of polythene bags and plastics? Suggest alternatives. How is this ban likely to improve the environment?



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Textbook Evaluation Value Based Questions

1. Why is it not possible to use solar cells to meet our energy needs? State three reasons to support your answer.



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2. How would you dispose of domestic waste like vegetable peels? Can the disposal protect the environment? How?



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3. How would you dispose the Industrial wastes like metallic cans. Can the disposal protect the environment ? How ?



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4. List any three activities based on 3R approach to conserve natural resources.



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Additional Question Answers Choose The Correct Answer

1. Choose the non-renewable energy resource

A. solar energy

B. water

C. Minerals

D. Wind

Answer: C



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2. Chipko movement is initiated against
_____.

- A. Uttar pradesh
- B. Uttarakhand
- C. Arunachal pradesh
- D. Madhya Pradesh

Answer: B



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3. Forest conservation Act was passed in

A. 1952

B. 1958

C. 1978

D. 1980

Answer: D



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4. The system of National parks and wild life sanctuaries was established in _____

A. 1954

B. 1980

C. 1935

D. 1988

Answer: C



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5. There are _____ biosphere reserves in India.

A. 5

B. 13

C. 15

D. 18

Answer: C



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6. The first National Park to be established in India was _____

A. Nilgiris

B. Gir forest

C. Corbett national park

D. Kaziranga sancutuary

Answer: C



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7. Wild life preservation society of India is located in _____

A. Delhi

B. Uttarakhand

C. Dehradun

D. Chattisgarh

Answer: C



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8. The project for conservation of _____ was launched in 1976

A. tiger

B. elephant

C. lion

D. crocodile

Answer: D



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9. Choose the word not applicable to fossil fuels.

A. Hydrocarbons

B. Decomposition

C. Natural process

D. Inexhaustible

Answer: D



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10. India is the _____ largest consumer of crude oil

A. fourth

B. seventh

C. third

D. second

Answer: C



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11. _____ is not obtained from petroleum

A. Biogas

B. Diesel

C. Gasoline

D. LPG

Answer: A



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12. Medical waste is disposed by _____.

A. Sanitary land fill

B. Incineration

C. Composting

D. Segregation

Answer: B



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13. Water is denser than air and therefore can generate electricity at _____ than wild turbines.

- A. lower speeds
- B. high speeds
- C. very low speeds
- D. very high speeds

Answer: A



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14. _____ is called fossil fuels as they are formed from the degradation of biomass buried deep under the earth.

A. Petroleum

B. Kerosene

C. Mineral ores

D. Oil

Answer: A



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Additional Question Answers Fill In The Blanks

1. The word 'Forest' is derived from the latin word _____.



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2. _____ is got by using the technique called hydraulic fracturing .



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3. Shale gas can affect ground water reserves .



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4. The number of basins that India has identified for shale gas exploration is _____.



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5. Because of _____ there was a 15 year ban on cutting trees in the Himalayan region.



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6. An initiative seeking public support for use of public land to produce fire wood, fodder etc.



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7. Soil erosion can be prevented by



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8. Solar cell is made of _____ .



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9. The soft finely stratified sedimentary rock is called _____ .



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10. Kallanai Dam is located on the river _____ .





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11. Forests act as carbon sink. Give reason.



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12. The word Chipko means _____ .



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13. _____ energy is free of cost and available in abundance in our country.



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14. _____ is free, eco-friendly renewable source of energy.



[Watch Video Solution](#)

15. _____ resources cannot be recycled.



[Watch Video Solution](#)

16. _____ resources are conserved for their biological , economic and recreational values.



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17. _____ energy are also called exhaustible energy resources.



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18. Proper utilization and management of nature and its resources is termed as _____ .



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19. Mineral ores are _____ resources.



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20. _____ acts as catchments for water conservation.



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21. _____ is the destruction of large area of forests.



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22. The _____ movement was a non-violent agitation that was aimed at protection and conservation of trees.



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23. The forest conservation act was adopted in _____.



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24. _____ National park was the first to be established in 1936 in Uttarakhand.



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25. There are _____ biosphere reserves in India.



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26. Crocodile conservation project was launched in _____ .



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27. Digging of _____ are one of the traditional water harvesting system in Tamilnadu.



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28. _____ , _____ bulbs save electricity.



[Watch Video Solution](#)

29. Abbreviation of PVC is _____.



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30. PVC burning produces _____ which can cause developmental and reproductive problems .



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31. Major component of bio gas _____



[Watch Video Solution](#)

32. _____ is the fuel in solar cells.



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33. The percentage of methane in Biogas is _____.



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34. The world's largest and tallest wind turbine in _____.



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35. One wind turbine can produce electricity for _____ homes.



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36. Burning of plastic produce _____.



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37. The top layers of soil contain humus and _____.



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38. Removal of upper layer of soil by wind and water is called _____ .



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39. _____ resources can be classified as non-renewable and renewable.



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40. _____ are found inside the Earth's Crust.



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41. _____ energy are also called exhaustible energy resources.



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42. _____ are also called as inexhaustible energy resources.





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43. Coal and petroleum are _____ resources.



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44. _____ is used for generation of electricity at thermal power plants.



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45. Petroleum is also known as _____ .



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46. Kerosene and LPG obtained from _____ .



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47. The white marble of Taj Mahal become yellow due to _____ .



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48. _____ is the energy obtained from the sun.



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49. Coal, petroleum and natural gas are called _____ fuels.



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50. _____ is made up silicon cells side connected directly to each other is called _____.



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51. Arrangement of many solar cells side by side connected to each other is called _____.



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52. _____ is also commonly called as Gobar gas.



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53. Solar cell is made of _____ .



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54. Windmill is a machine that converts the energy of wind into _____.



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55. The technique to harness the water energy is called _____.



[Watch Video Solution](#)

56. Nearly 71% of the Earth's surface is covered is called _____ .



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57. The kinetic energy possessed by wind is converted by _____.



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58. _____ are converts the kinetic energy of flowing water into electricity.



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59. Tidal energy is obtained from the movement of water due to _____.



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60. A _____ is a fast flowing body of water created by tides.



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61. The collecting and storing rain water for future purpose is known as _____ .



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62. _____ are excellent rain catches.



[Watch Video Solution](#)

63. _____ are converts the kinetic energy of flowing water into electricity.



[Watch Video Solution](#)

64. _____ cell is a device that absorbs sunlight and converts it into electric energy.



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65. Solar water heater does not produce electricity . Give reason.



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66. Biogas is produced by the decomposition of _____.



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67. The collecting and storing rain water for future purpose is known as _____.



Watch Video Solution

68. Energy resources can be renewed over a short period of time is known as _____ .



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69. _____ is a mixture of methane, hydrogen sulphide , carbon dioxide and hydrogen .



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70. Biogas can reduce the amount of _____ emitted.



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71. _____ is the fourth oldest dam into the world.



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72. Spoiled , outdated non-repairable electricity and electronic devices are called _____ .



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73. Chromium : Asthmatic bronchitis::
Cadmium : _____.



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74. _____ is a reserved area for the conservation of entire wildlife including plants and animals.



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[Additional](#) [Question](#) [Answers](#) [Match](#) [The](#)
[Following](#)

1. A small icon of a document with a green checkmark, representing a text solution.



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2. 



[View Text Solution](#)

3. 



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Additional Question Answers State Whether The Following Statements Are True Or False Correct The False Statement

1. Biogas is produced by anaerobic decomposition of cow dung _____ .



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2. Plastic waste can be composted.



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3. Tidal energy is a conventional renewable source of energy _____ .



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4. Using pressure cooker can reduce consumption of fuel_____.



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5. Solar energy causes pollution.



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6. Shale gas can affect ground water reserves .



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7. Wind energy is free of cost.



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8. In sewage treatments, Aerotion is a anaerobic method of treatment.



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Additional Question Answers Assertion And Reason

1. Assertion : Tidal energy does not produce pollution.

Reason : Water is denser than air and hence electricity generated by tidal energy is at a lower speed than wind turbines.

A. Both assertion and reason are true and reason is correct explanation of

assertion.

B. Both assertion and reason are true but reason is not the correct explanation of assertion.

C. Assertion is true but reason is false.

D. Both assertion and reason are false.

Answer: B



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2. Assertion : Ooranis are traditional methods of collecting Rain water

Reason : Ooranis are used for domestic purpose.

A. Both assertion and reason are true and reason is correct explanation of assertion.

B. Both assertion and reason are true but reason is not the correct explanation of assertion.

C. Assertion is true but reason is false.

D. Both assertion and reason are false.

Answer: A



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3. Assertion : Paddy waste can be recycled.

Reason : It produces Biogas.

A. Both assertion and reason are true and

reason is correct explanation of

assertion.

B. Both assertion and reason are true but reason is not the correct explanation of assertion.

C. Assertion is true but reason is false.

D. Both assertion and reason are false.

Answer: C



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4. Assertion : Nilgiris is a bio-reserve .

Reason : The flora and fauna must be conserved.

A. Both assertion and reason are true and reason is correct explanation of assertion.

B. Both assertion and reason are true but reason is not the correct explanation of assertion.

C. Assertion is true but reason is false.

D. Both assertion and reason are false.

Answer: A



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5. Assertion : Solar cell produces electricity without polluting the environment .

Reason : It uses no fuel other than sunlight , no harmful gases, no burning and no wastes are produced.

A. Both assertion and reason are true and reason is correct explanation of assertion.

B. Both assertion and reason are true but reason is not the correct explanation of assertion.

C. Assertion is true but reason is false.

D. Both assertion and reason are false.

Answer: A



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Additional Question Answers Analogy Type
Question

1. Non-renewable : Exhaustible :: Renewable :

_____.



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2. Chromium : Asthmatic bronchitis:: Cadmium

: _____.





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3. Petrol : Automobiles :: LPG : _____



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Additional Question Answers Answer In One Word

1. An example of Fossil Fuel.



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2. Destruction of large area of forests.



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3. Planting of trees in a large scale.



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4. The _____ movement was a non-violent agitation that was aimed at protection and conservation of tress.



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5. An initiative seeking public support for use of public land to produce fire wood, fodder etc.



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6. Name a biosphere reserve in Tamil Nadu __.



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7. Removal of upper layer of soil by wind, water etc.



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8. A conventional source of energy.



[Watch Video Solution](#)

9. A non-conventional source of energy.



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10. Petroleum is also known as _____ .



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11. What does LPG stand for ?



[Watch Video Solution](#)

12. What does CFC stand for ?



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13. Name a Photovoltaic device.



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14. Small ponds traditionally used in villages.



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15. How are e-wastes generated?



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16. Method of disinfection used in sewage treatment .



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17. Method used to treat medical waste.



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18. Method of disposing bio-degradable solid waste.



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19. When did the Government of Tamilnadu announce ban on plastics products ?



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20. Name the products for which use of plastic sachets has been legally permitted (Any two).



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21. A place reserved exclusively for use of animals.



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Additional Question Answer In A Sentence

1. What are Ooranis ?



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2. What is a thermal power plant ?



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3. How is Taj Mahal damaged by acid rain



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4. Solar water heater does not produce electricity . Give reason.



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5. List any three activities based on 3R approach to conserve natural resources.



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Additional Question Answers Give Reasons For The Following Statements

1. Solar energy cannot be used in all the countries.



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2. Medical waste is disposed by _____.



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3. Forests act as carbon sink. Give reason.



[Watch Video Solution](#)

4. Tidal energy does not produce any pollution.



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5. Soil erosion affect the soil by decreasing the fertility of soil.



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1. Define wild life.



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2. What is Van Mahotsav ?



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3. Mention two aims of sustainable world.



[Watch Video Solution](#)

4. How can we contribute to a sustainable world ?



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5. List uses of biogas.



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6. Differentiate a National park and Sanctuary.





[Watch Video Solution](#)

7. Define Conservation .



[Watch Video Solution](#)

8. What are Eris ?



[Watch Video Solution](#)

9. Differentiate Hydro power and Tidal power.





[Watch Video Solution](#)

10. Mention two provisions of the wild life protection Act.



[Watch Video Solution](#)

11. Mention two steps to conserve coal and petroleum resources.



[Watch Video Solution](#)

12. List the uses of petroleum.



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13. What are solar thermal power plants?



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14. Define 'shale'.



Watch Video Solution

15. Mention the advantages of using tidal energy.



Watch Video Solution

16. Mention some methods by which you can save electricity at home.



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17. List some ill effects of e-wastes.



Watch Video Solution

18. What happens when plastics are burnt?



Watch Video Solution

19. What is the role of hydropower plants?



Watch Video Solution

20. List the sources of e-wastes.



Watch Video Solution

21. Differentiate Non-renewable and Renewable energy sources.



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Additional Question Answers Short Answers

1. Write two advantages of Rain water harvesting.



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2. What is the aim of wild life conservation?



[Watch Video Solution](#)

3. List the environmental concerns of shale gas.



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[Additional Question Answers Long Answers](#)

1. Write a note on biogas.



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2. Write a note an solar cells.



Watch Video Solution

3. Write a note an wind energy .



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4. Explain the waste water treatment process.



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Additional Question Answers Higher Order Thinking Skills Hots

1. Do biodegradable substance affect the environment ? Reason out.



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2. Name two activities in your daily life where solar energy is useful.



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3. Mention one disadvantage of using Nuclear power.



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Additional Question Answers Value Based Questions

1. A family has 3 three cars and can afford to buy fuel. They prefer to go out independently. Is it right to suggest car pooling for such people. Justify.



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2. What are the solutions suggested for disposal of e-wastes for companies / Organizations?



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3. Reena lives in a apartment . She would like to contribute . What can she do ?



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4. All forms of energy got from different sources comes from the sun. Do you agree with this? Give reasons.



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1. Expand the abbreviation

IBWL



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2. Expand the abbreviation

WWF



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3. Expand the abbreviation

WCN



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4. Expand the abbreviation

IUCN



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5. Expand the abbreviation

CITIES



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6. Expand the abbreviation

LPG



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7. Expand the abbreviation

CFL



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8. Expand the abbreviation

LED



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9. Expand the abbreviation

PVC



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10. Expand the UV.



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