



BIOLOGY

NCERT - NCERT Biology(Telugu)

SOIL POLLUTION

Medicine Orientated Material

1. Which of the following is an example of soil pollution –?

A. a. Addition of radioactive waste

B. b. Addition of herbicides and weedicides

C. c. Addition of industrial wastes

D. d. All the above

Answer:



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2. Earth summit, 1992 was held at

A. a. New York

B. Geneva

C. Rio de Janeiro

D. Canada

Answer:



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3. Effect of pollution is seen on

A. Variation

B. Ecological balance

C. Crop rotation

D. Mutation

Answer:



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4. Which of the following is a most dangerous metal pollutant –?

A. A. Cadmium

B. B. Copper

C. C. Mercury

D. D. Lead

Answer:



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5. Domestic wastes constitute largely of

A. Air pollutants

B. Non biodegradable wastes

C. Bio degradable wastes

D. Effluents

Answer:



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6. World environment day is on

A. 12th July

B. 5th June

C. 1st March

D. 10th June

Answer:



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7. Montreal protocol was signed in

A. 1978

B. 1987

C. 1997

D. 1994

Answer:



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8. Municipal waste including human and animal excreta, food residues, etc rich in bacteria and organic substances is –

A. A. Sewer

B. B. Sewerage

C. C. Sewage

D. D. Effluent

Answer:



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9. Soil fertility is depleted due to –

A. A. Terracing

B. B. Contour ploughing

C. C. Intensive agriculture

D. D. Crop rotation

Answer:



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10. Spraying pesticide causes –

A. A. Water pollution

B. B. Soil pollution

C. C. Both a and b

D. D. None of these

Answer:



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11. Montreal protocol is aimed at –

A. a. Reduction of green house gases

B. b. Limitation of usage of CFC

C. c. Minimise Jhoom farming

D. d. All of the above

Answer:



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12. Non biodegradable pollutants are harmful as they –

- A. a. Undergo bio magnification
- B. b. Remain for long without degrading
- C. c. Do not get recycled
- D. d. Both b and c

Answer:



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13. Domestic wastes constitute –

A. Biodegradable wastes

B. Non biodegradable wastes

C. Effluents

D. Air pollutants

Answer:



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14. Animal excreta and other domestic wastes can be minimised profitably by –

A. Storing them

B. Vermi composting

C. Redirecting them as bio fertilisers
directly

D. Production of biogas

Answer:



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15. Secondary sewage treatment is mainly a

- A. Physical process
- B. Mechanical process
- C. Biological process
- D. Chemical process

Answer:



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Exercise

1. Define soil pollution



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2. Describe an environmentally friendly method to profitably dispose of human waste and cattle waste.



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3. Chemical fertilizers are useful to crops. In which way the cost environmental pollution?



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4. What steps can be taken to reduce pollution due to particulate matter from industries?



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5. What is the medical waste? Why is it called hazardous-waste? What is the safe way to

dispose medical waste?



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6. What farm practices impact soil? Do they impact soil in a positive or a negative way?



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7. Rank the positive impact practices an order in which you think they should be used for the most benefit on your farm.



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8. What are the three main physical properties of soil? What effect do these have on the plants?



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9. What is pH? What is its range? What are the negative impacts if the pH of soil is too low or too high?





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10. What is soil fertility? What are the sources of soil fertility?



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11. What is organic matter? Why it is it is important to plants?



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12. What are the factors affecting organic matter levels in soil? How does level of organic matter can be increased?



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13. What is solid waste? Explain best practices for solid waste management.



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14. What is bioremediation? How it helps in controlling soil pollution?



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15. How would soil texture affect the nutrients in soil? What would be its impacts on crop production?



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16. Why soil conservation is important to it to us? What will happen if no preventive measures would be taken?



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17. Name five things that live in soil. What do these things do to affect the soil.



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18. Why are plastic bag a big environmental nuisance?



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19. What soil problems do you find in your area? Prepare a list of those problems and suggest a method for each of them to control those problems.



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20. Ravi said, "soil health is important", how can you support him?



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21. what is soil ?



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22. What is organic matter? Why it is it is important to plants?





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23. What is top soil comprised of?



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24. Explain biological properties of soil.



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25. What happens if wastes from homes are left uncollected?



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26. what are the factors determining the soil type ?



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27. What are the physical properties of soil?



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28. How is soil and crop quality related?



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29. what is mineralization ?



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30. What is mycorrhizae?



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31. Name some sources of soil pollution.



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32. what are biodegradable pollutanta ?give examples



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33. What are the different categories of soil pollution?



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34. What are the causes of soil corrosion?



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35. How is undergrounds soil in cities polluted?



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36. what will happen if you throw the wastes wherever you want ?



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37. What are the effects of soil pollution on the agriculture?



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38. How to soil pollution affect urban life?



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39. Suggest some measures to control soil pollution.



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40. What is contour ploughing? What is the importance in soil conservation?





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41. name three natural resources on the earth?



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42. What is our environment composed of?



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43. What is soil made up of?



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44. what is mineralization ?



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45. What is soil fertility?



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46. What is bioremediation ?



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47. What are components of soil



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48. what will happen if there is acidic or basic nature of soil



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49. What are biodegradable wastes?



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50. What are non-biodegradable substances?



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51. What are radioactive wastes and e-wastes?



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52. What is the decomposition?



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53. What is soil or land pollution?



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54. What is soil pollutant?



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55. Why do farmers add fertilizers to the soil?



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56. What is pyrolysis?



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57. What are the natural causes of land pollution?



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58. What is no till farming?



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59. A natural resource among the following is-

A. Soil

B. Water

C. Air

D. All the above

Answer:



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60. Natural medium on the surface of the earth in which plant grow is-

A. Soil

B. water

C. Air

D. All the above

Answer:



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61. Mineral particles occupy----% of the components of the soil-

A. 45

B. 25

C. 5

D. 35

Answer:



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62. Organic matter account to ---% of components of soil-

A. 45

B. 25

C. 5

D. 35

Answer:



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63. Soil formation can take ----- years to create one inch of topsoil-

A. 100-1000

B. 10 – 1000

C. 100-300

D. 100 to 10,000

Answer:



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64. The higher the quality of the soil, the -----is the quality of the crop produced-

A. Lower

B. higher

C. Slower

D. Faster

Answer:



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65. The residues of dead plants, animals and organism is called-

A. Inorganic matter

B. organic matter

C. Biological matter

D. None of these

Answer:



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66. Soils which contain 30% or more organic matter are considered-

A. Organic soil

B. black soil

C. Inorganic soil

D. Alluvial soil

Answer:



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67. Parent material is in the-

A. Top soil

B. middle layer

C. Bottom layer

D. Top most layers

Answer:



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68. Layer of maximum biological activity is

- A. Top soil
- B. middle layer
- C. Bottom layer
- D. All the above

Answer:



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69. importance of organic matter is that

- A. Improves water infiltration
- B. decreases evaporation
- C. Increase the water holding capacity
- D. All the above

Answer:



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70. the range of pH values of good soil is in between -

A. 4.4-4.4

B. 7.5-9

C. 9-11.5

D. 5.5 to 7.5

Answer:



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71. Below pH 7 the soil are termed as-

A. Alkaline

B. neutral

C. Acidic

D. All the above

Answer:



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72. Above pH 7 soil is termed as-

A. Alkaline

B. neutral

C. Acidic

D. All the above

Answer:



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73. Soil richer in organic matter is ---- in nature-

A. Alkaline

B. neutral

C. Acidic

D. No relationship

Answer:



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74. The availability of N, K, Ca, Mg and S tends to---- with decreasing pH

- A. Increase
- B. Decrease
- C. No change
- D. No relation

Answer:



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75. Soil Microbes convert organic forms of element to their inorganic forms. This process is known as -

A. Biogeochemical cycles

B. mineralization

C. Aeration

D. Percolation

Answer:



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76. Major part of soil microbial biomass is composed of -

A. Fungi

B. bacteria

C. Algae

D. Mycorrhizae

Answer:



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77. --- enlarge the rooting zone of plants and enter small soil pores, where plant roots cannot access-

A. Fungi

B. bacteria

C. Algae

D. Mycorrhizae

Answer:



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78. Biodegradable waste among the following is -

A. Twigs

B. aluminum cans

C. Plastic

D. DDT

Answer:



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79. non-biodegradable waste among the following is -

A. Twigs

B. Hay

C. Dung

D. DDT

Answer:



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80. computer and mobile comes under-

A. Biodegradable wastes

B. E- wastes

C. Radioactive wastes

D. Organic matter

Answer:



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81. The process of materials being digested and broken down into simpler substances, making nutrients more available to plants is called -

- A. Incineration
- B. Mineralization
- C. Decomposition
- D. Degradation

Answer:



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82. additional substances which adversely affect the quality of soil or its fertility is-

- A. Soil pollution
- B. Deterioration
- C. Decomposition
- D. Degradation

Answer:



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83. Expand DDT-

A. Diphenyl dichloro trichloro ethane

B. Dichloro diphenyl triphenyl ethane

C. Dichloro Diphenyl trichloro ethane

D. Diphenyl dichloro triphenyl ethane

Answer:



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84. Which of the following is municipal solid waste? -

A. Discarded medicines

B. Demolition debris

C. Human excreta

D. Sharp materials

Answer:



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85. Hazardous solid waste among the following is -

A. Organic solvents

B. Battery materials

C. Heavy metals from smelting industries

D. All the above

Answer:



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86. ---- is the cause for soil erosion-

A. Deforestation

B. Temperature extremes

C. Acid rain

D. All the above

Answer:



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87. Man made causes for soil erosion is -

A. Construction

B. Mining

C. Over cropping

D. All the above

Answer:



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88. Recycling of one tonne of paper can save ---
trees-

A. 13

B. 14

C. 15

D. 17

Answer:



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89. The materials that can be recycled among the following are-

A. Paper

B. Plastic

C. Glass

D. All the above

Answer:



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90. ----- management involves activities including collection, transfer and transport to suitable sites, and safe disposal of wastes-

- A. Solid waste
- B. Liquid waste
- C. Hazardous waste
- D. Business

Answer:



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91. The process of combustion in absence of oxygen or the material burnt under controlled atmosphere of oxygen is-

- A. Incineration
- B. Pyrolysis
- C. Degradation
- D. Decomposition

Answer:



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92. Gas released from cow dung is-

A. Gobar gas

B. Ethane gas

C. Nitrogen gas

D. Oxygen gas

Answer:



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93. Using a biological remedy to abate or clean up contamination is called-

- A. Bioaccumulation
- B. Biomagnification
- C. Bioremediation
- D. Biotransformation

Answer:



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94. the cause for natural land pollution is -

A. Earthquakes

B. Landslides

C. Hurricanes

D. All the above

Answer:



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95. a way of growing crops without disturbing soil through tillage is called-

- A. Contour ploughing
- B. No till farming
- C. Terracing
- D. Jhoom type farming

Answer:



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96. The practice of farming across the slopes is

-

A. Contour ploughing

B. No till farming

C. Terracing

D. Jhoom type farming

Answer:



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97. A levelled section of a hilly cultivated area is called-

A. Contour ploughing

B. No till farming

C. Terrace

D. Jhoom type farming

Answer:



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98. The life supporting zone of the earth is

A. Biosphere

B. Lithosphere

C. Hydrosphere

D. Atmosphere

Answer:



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99. Step farming is common in

A. Plains

B. Hills

C. Low lands

D. None

Answer:



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100. The pH of substance is 4. Then it shows.

A. Acidic

B. Basic

C. Neutral

D. None

Answer:



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101. Fill in the blanks:

Root tips contain.....tissue.



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Example

1. Define soil pollution



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2. What is soil fertility? What are the sources of soil fertility?



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3. Name five things that live in soil. What do these things do to affect the soil.



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4. What is soil fertility?



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5. Water pollution



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6. what is soil ?



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7. name three natural resources on the earth?



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8. What are pollutants?



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9. What is the medical waste? Why is it called hazardous-waste? What is the safe way to dispose medical waste?



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10. What are the three main physical properties of soil? What effect do this have on the plants?



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11. What are the factors affecting organic matter levels in soil? How does level of organic matter can be increased?



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12. Why is soil health important?



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13. What farm practices impact soil? Do they impact soil in a positive or a negative way?



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14. How would soil texture affect the nutrients in soil? What would be its impacts on crop production?



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15. What is top soil comprised of?



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16. What makes the quality and type of soils?



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17. How can we prevent the loss of top soil?



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18. Chemical fertilizers are useful to crops. In which way the cost environmental pollution?



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19. Following are a few organisms Moses, Lichens, Neem trees, Cactus. Which among the above can grow on stones and also help in the formation of soil? Write the mode of their action for making soil?



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20. Describe an environmentally friendly method to profitably dispose of human waste and cattle waste.



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21. What soil problems do you find in your area? Prepare a list of those problems and suggest a method for each of them to control those problems.



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22. Name some sources of soil pollution.



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23. Observe the following diagram. What does it represent ?

Explain the process in a flow-chart.



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24. Name some sources of soil pollution.



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25. What is organic matter? Why it is it is important to plants?



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26. Why soil conservation is important to it to us? What will happen if no preventive

measures would be taken?



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27. what is stench



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28. what are the factors determining the soil type ?



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29. step farming



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30. Why are plastic bag a big environmental nuisance?



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31. What is PH? What is its range? What are the negative impact if the pH of soil is too low

or too high?



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32. What is bioremediation? How it helps in controlling soil pollution?



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33. What is solid waste? Explain best practices for solid waste management.



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34. What steps can be taken to reduce pollution due to particulate matter from industries?



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35. Rank the positive impact practices an order in which you think they should be used for the most benefit on your farm.



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36. Rank the positive impact practices an order in which you think they should be used for the most benefit on your farm.



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37. Bio degradable pollutants are



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38. Enlist the main causes of soil erosion.



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39. What are the methods of preventing or reducing soil erosion?



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40. Define soil pollution



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41. What is the medical waste? Why is it called hazardous-waste? What is the safe way to dispose medical waste?



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42. Chemical fertilizers are useful to crops. In which way the cost environmental pollution?



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43. Name some sources of soil pollution.



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44. Chief source of soil and water pollution is



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45. What is organic matter? Why it is it is important to plants?



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46. What is PH? What is its range? What are the negative impact if the pH of soil is too low or too high?



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Improve Your Learning

1. soil pollution.



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2. Chemical fertilizers are useful to crops. In which way the cost environmental pollution?



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3. write some methods to profitably dispose human and cattle waste



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4. What steps can be taken to reduce pollution due to particulate matter from industries?



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5. What is the medical waste? Why is it called hazardous-waste? What is the safe way to dispose medical waste?



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11. why organic matter is important to plants



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12. What are the factors affecting organic matter levels in soil? How does level of organic

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13. Explain best practices for solid waste management.



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15. How would soil texture affect the nutrients in soil? What would be its impacts on crop production?



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16. what is phytoremediation



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17. Name 5 organisms that live in soil. How do they influence the soil?



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18. what is subtle



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19. Define soil pollution



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20. 'plastic bags a big environmental nuisance"- How do you support this statement?



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21. What soil problems do you find in your area? Prepare a list of those problems and suggest a method for each of them to control those problems.





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22. what are gophers



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23. Rani said soil health is Important. How can you support her?



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24. Define soil pollution



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25. Why are plastic bag a big environmental nuisance?



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26. Describe an environmentally friendly method to profitably dispose of human waste

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29. What is the medical waste? Why is it called hazardous-waste? What is the safe way to dispose medical waste?



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30. Draw a flow chart to describe the classification of ecosystem



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44. Why soil conservation is important to it to us? What will happen if no preventive measures would be taken?



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45. Which of the following molecules have the highest mean speed at the same temperature



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