



BIOLOGY

BOOKS - VGS PUBLICATION-BRILLIANT

SOIL POLLUTION

Exercise

1. Define 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. Describe an environmentally friendly method to profitably dispose of human waste 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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6. What farm practices impact soil? Do they impact soil in a positive or a negative way?



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



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8. 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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9. What is soil fertility?



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10. What is organic matter? Why it is it is important to 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. What is solid waste? Explain best practices for solid waste management.



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



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14. How does the soil pollution affects the crop yield?



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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. Prepare a flow chart to describe soil pollution, cause and methods of control.



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19. Why are plastic bag a big environmental nuisance?



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20. 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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21. Ramu said soil health is important. How can you support him?



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



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23. Write a short note on biodegradable waste. Give examples.



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24. Write a short note on non-biodegradable waste. Give examples.



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25. What are the effects of toxic chemicals released into the soil?



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



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27. what is mineralization ?



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28. What is soil erosion?



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29. What is top soil comprised of?



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30. what is soil ?



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31. name three natural resources on the earth?



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32. what is soil ?



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33. Fertile soils have lots of humus. Why?



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34. Why is Step farming common in hills?



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35. what are the factors determining the soil type ?



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36. What is the decomposition?



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37. What are the components of soil?



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38. What is soil erosion?



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39. What are the problems that arise due to uncollected and decomposed soil waste in cities?



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



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



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42. Discuss the pollution due to industrial wastes.



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43. What are the effects of soil pollution due to urban activities?



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44. what are biodegradable pollutanta ?give examples



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45. The result of soil erosion.



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46. How is soil formed?



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47. What are the chemical properties of soil?

What effects does this have on the plants?



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48. What are the biological properties of soil?

What effects does this have on plants?



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49. Write the effects of insecticide DDT on environment.



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50. Write the examples of pesticides. What are their effects on soil and human beings?



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51. Write briefly about biomagnifications.



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52. What is the solid waste? What are different types of solid waste?



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53. What are the different ways and methods possible for soil conservation? Briefly explain them.



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54. Soil is made up of

A. Minerals

B. Decomposed organic matter

C. Air and water

D. All the above

Answer:



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55. The time required to create one inch of top soil

A. 100-1000 years

B. 100-10,000 years

C. 100-5000 years

D. 100-15,000 years

Answer:



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56. The layer of the soil which is the foundation for the life on the earth

A. The middle layer

B. Bottom layer

C. Top layer

D. All the above

Answer:



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57. Soil consists of nutrients required for plant growth are

A. Nitrogen

B. Phosphorus

C. Potassium

D. All

Answer:



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58. If the pH level of soil is below 7 then the soil is

A. Acidic

B. Alkaline

C. Saline soil

D. Organic soil

Answer:



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59. The pH value of Alkaline soil is

A. Above 7

B. Below 7

C. Above 8

D. Below 8

Answer:



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60. Major microbial groups in soil are

A. Bacteria, fungi

B. Bacteria, fungi, algae

C. Bacteria, fungi, algae and protozoa

D. Bacteria, fungi, protozoa

Answer:



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61. The process of converting organic forms of elements to their inorganic forms by soil microorganisms is known as

A. Biogeochemical cycles

B. Mineralization

C. Pyrolysis

D. Incineration

Answer:



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

A. Algae

B. Fungi

C. Bacteria

D. Protozoa

Answer:



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63. Waste substances that can be degraded by microbes into harmless and non-toxic substances are

- A. Degradable waste
- B. Non-biodegradable
- C. Biodegradable waste
- D. Non-degradable waste

Answer:



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64. Excessive potassium content in soil decreases vitamin C and carotene content in

A. Vegetables

B. Fruits

C. Grains

D. Vegetables and fruits

Answer:



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65. The first widespread insecticide used is

A. DDT

B. BHC

C. Malathion

D. Nuvacron

Answer:



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66. The process of increasing concentration of chemicals through the food chain is known as

- A. Incineration
- B. Pyrolysis
- C. Biomagnification
- D. Bioremediation

Answer:



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67. Increase in solid waste is due to

A. Increase in population

B. Urbanization

C. Both A and B

D. Modernization

Answer:



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68. Hazardous solid waste includes

A. Household waste

B. Industrial waste

C. Sanitation residue

D. Construction waste

Answer:



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69. An excellent binding material that keeps the soil intact and healthy

A. Forests

B. Grasslands

C. Forests, grasslands

D. None

Answer:



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70. The amount of solid waste produced in Indian cities per day is

A. 50,000 – 80,000 metric tones

B. 5,000-8000 metric tons

C. 500-800 metric tons

D. 600-800 metric tons

Answer:



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71. Microbial decomposition of organic wastes generate large amounts of

A. Ethane

B. Propane

C. Methane

D. Acetylene

Answer:



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72. Which metal has unpleasant effect on human health?

A. Gold

B. Silver

C. Lead

D. Copper

Answer:



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73. Soil pollution can be prevented by

A. Limit construction in sensitive area

B. Adopting four R's : Reduce, Reuse,

Recycle and Recover

C. Applying biofertilizers and manures

D. All the above

Answer:



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74. The average per capita solid wastes produced per day is

A. 264 gms

B. 364 gms

C. 634 gms

D. 346 gms

Answer:



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75. This is the simple and most widely used technique of solid waste management.

- A. Burying the waste
- B. Burning the waste
- C. Incineration of water
- D. Pyrolysis

Answer:



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76. The solid waste management process which is expensive and cause air pollution

A. Burying the waste

B. Pyrolysis

C. Incineration of waste

D. Bioremediation

Answer:



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77. Using biological remedy to reduce or clean up contamination is known as

A. Pyrolysis

B. Incineration

C. Bioaccumulation

D. Bioremediation

Answer:



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78. Volatile elements which can be released directly from plants to atmosphere are

A. Lead, mercury

B. Mercury, selenium

C. Selenium, lead

D. Antimony, mercury

Answer:



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79. Land pollution occurs massively during

A. earthquakes

B. Land slides, hurricanes

C. Earthquakes, floods, landslides

D. Earthquakes, floods, landslides,
hurricanes

Answer:



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80. This method helps in the percolation of water into the soil

- A. No – till farming
- B. Contour ploughing
- C. Crop rotation
- D. Planting trees

Answer:



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81. The uptake of nutrients plants is also governed to a certain extent by

A. Nature of the soil

B. Soil pH

C. Soil organisms

D. Crop rotation

Answer:



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82. Number of earthworms present in one acre of land where the top soil is eight inches thick

A. 5000

B. 50000

C. 15000

D. 17000

Answer:



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83. Step farming is common in

A. Plains

B. Platues

C. Hills

D. Low lands

Answer:



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84. The microorganisms that help in the formation of soil

A. Moss

B. Bacteria

C. Lichen

D. A and C

Answer:



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85. Burning of fossil fuel adds

A. H_2 , O_2 , N_2 in air

B. CO_2 , NO_2 , SO_2 gases in air

C. SO_2 , O_2

D. SO_3 , SO_2

Answer:



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86. Soil is the component of

A. Atmosphere

B. Hydrosphere

C. Lithosphere

D. Biosphere

Answer:



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87. Soil that is best suited for plant growth is

A. Clayey

B. Loamy

C. Sandy

D. Gravel

Answer:



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88. Biological weathering is caused by

- A. Lichens
- B. Mosses
- C. Roots of plants
- D. All the above

Answer:



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89. Toxic chemicals released by paper industry are

A. Cadmium

B. Mercury

C. Lead

D. Nickel

Answer:



90. Major sources of formation of soil is

- A. Rocks
- B. Himalayas
- C. Riverbeds
- D. Volcanoes

Answer:



91. Sun cause weathering of rocks through

A. Physical phenomena

B. Biological Change

C. Chemical changes

D. Mechanical force

Answer:



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92. These are considered as wind breaks

A. Row of trees and shrubs

B. Growing grasses alternating with crops

C. Compound walls

D. Raising edges of fields

Answer:



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93. This gas is formed on burning of wood

A. NO_2

B. O_2

C. H_2

D. CO_2

Answer:



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94. Ozone layer is present in

A. Troposphere

B. Stratosphere

C. Ionosphere

D. None

Answer:



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95. Friend of the farmer –

A. Frogs

B. Earthworms

C. Snails

D. Toads

Answer:



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96. Biological remedy to clean up contamination is

- A. Bio-remediation
- B. Phyto remediation
- C. Bio-Magnification
- D. A and B

Answer:



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97. The hazardous elements that are released directly from plants to atmosphere

A. selenium

B. Mercury

C. Lead

D. Both A and B

Answer:



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98. Anaerobic/aerobic decomposition of biodegradable municipal and domestic waste give

A. Natural gas

B. CNG

C. LPG

D. Gobar gas

Answer:



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99. These are considered as valuable sinks for CO_2

A. Fields

B. Rivers

C. Lakes

D. Forests

Answer:



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100. Example for hazardous solid waste

A. Industrial and hospital waste

B. Debris

C. Chemical Wastes

D. Discarded medicines

Answer:



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101. The best example for bio magnification is

A. D.D.T

B. B.H.C

C. Dieldrin

D. All the above

Answer:



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

A. 5.5-6.5

B. 44383

C. 5.5 to 7.5

D. 5.5-8.5

Answer:



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103. D.D.T was not soluble in water but in

A. Phenol

B. Fat

C. Carbohydrate

D. Benzene

Answer:



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104. Expended from of D.D.T is

A. Di Dehydro Tetracycline

B. Diphenol Dihydro Tetrane

C. Dichloro diphenyle Trichloro Ethane

D. Dichloro Diphenol Tri Ethane

Answer:



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105. The process of combustion in absence of oxygen is

A. Incineration

B. Pyrolysis

C. Burning

D. Oxidation

Answer:



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106. Calcium deficiency in soils is due to

A. High pH value

B. Low pH value

C. High Mg value

D. High humus value

Answer:



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107. Microbial activity and nutrient absorption in soils is due to

A. Low pH

B. High pH

C. High humus value

D. None

Answer:



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