



BIOLOGY

BOOKS - VGS PUBLICATION-BRILLIANT

BIO GEOCHEMICAL CYCLES

Exercise

1. What is the importance of different biogeochemical cycles in the nature?



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2. What emissions from human activities lead to ozone depletion? And what are the principal steps in stratospheric ozone depletion caused by human activities?



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3. Why could we say that biogeochemical cycles are in “balance”?



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4. If all the vegetation in the pond died, what effects would it have on the animals? Why?



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5. Write an experiment to prove greenhouse effect on temperature.



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6. Go to near by pond observe organisms living in the pond and bio degradable substances mixing in water. How they effect on those organisms? Write your observation.



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7. Describe interdependence of biotic and abiotic components by taking Nitrogen cycle as an example.



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8. Draw oxygen, water and nitrogen cycles.



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9. Write an essay explaining the importance of Ozone layer.



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10. 'Burning of fossil fuels a concern for scientists and environmentalists" How do you support this statement?



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11. Prepare slogans on green house effect and read them out in the school assembly



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12. ' CO_2 play a vital role in plant life process" -
comment?



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13. How human activities caused an imbalance
in biogeochemical cycles?



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14. List three ways we, as humans, have affected the water cycle.



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15. Prepare an article for newspaper on the item "How human activities effects the environment".



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16. What is bio-geochemical cycle?



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17. What are the differences between oxygen and ozone ?



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18. How much percentage of water on the earth is present in the ocean?



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19. Name few green house gases?



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20. What is denitrification?



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21. What is nitrification?



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22. Name the three main processes by which oxygen is lost from the atmosphere.



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23. Why are root nodules useful for plants?



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24. What is acid rain? How is it formed?



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25. Give the names of a few organisms that help in nitrogen fixation.



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26. List any three activities which would lead to an increase in the carbon dioxide content

of air.



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27. Name few recently originated problems of environment.



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28. What would happen if all oxygen present in the environment is converted to ozone?



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29. Expand CFC.....



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30. Expand B.O.D.



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31. What is the main concern of montreal protocol?



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32. Which forms of nitrogen are taken up by plants from the soil?



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33. Which is the most abundant element in the universe?



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34. What is called UniversalSolvent?



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35. What are the uses of water ?



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36. What is nitrification? What are the bacteria that participate in nitrification ?



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37. What is denitrification? Explain the process of denitrification ?



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38. Explain briefly about greenhouse effect?



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39. What are the uses of oxygen?





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40. What is Biochemical Oxygen Demand (BOD) ?



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41. State two harmful effects of Ozone hole or Ozone layer depletion.



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42. What are the harmful effects of acid rain ?



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43. What is the difference in fog and smog?

Give two harmful effects of smog.



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44. What is bad Ozone and good Ozone?



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45. There is a mass mortality of fishes in a pond. What may be the reasons?



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46. Why is it said that nitrogen is very important for us?



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47. Write about the sources of water on earth.

Why we are facing water shortage? Explain.



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48. What is water cycle?



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49. What is Nitrogen fixation? What is its importance?



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50. What is ammonification ? Under which condition does ammonification occur?



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51. In which forms is carbon found on earth ?



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52. What is global warming? What are its effects?



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53. Explain carbon cycle in nature with diagram.



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54. Describe the oxygen cycle.



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55. The flow of nutrients from living organisms to environment and from environment to living organisms occur through

A. Biogeochemical cycles

B. Biocycles

C. Chemical cycles

D. Geocycles

Answer:



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56. The percentage of salt water on earth is

A. 3 %

B. 1 %

C. 97 %

D. 2 %

Answer:



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57. The human body is composed of about how much water?

A. 80 %

B. 70 %

C. 90 %

D. 10 %

Answer:



58. These form integral part of basic organic compounds of life.

- A. Nitrogen, hydrogen
- B. Hydrogen, phosphorous
- C. Hydrogen, oxygen
- D. Nitrogen, oxygen

Answer:



59. The element that is abundantly present in atmosphere is

A. Oxygen

B. Hydrogen

C. CO_2

D. Nitrogen

Answer:



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60. The free living bacteria that fixes nitrogen is

A. Nitrosomonas

B. Rhizobium

C. Nitrobacter

D. All the above

Answer:



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61. Nitrogen makes its way back into the atmosphere through a process called-

A. Ammonification

B. Denitrification

C. Assimilation

D. Nitrification

Answer:



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62. The excessive amount of nitrates and other nitrogenous compounds when they reach rivers and lakes cause too much growth of

- A. Bryophytes
- B. Fungi
- C. Algae
- D. Pteridophytes

Answer:



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63. It is responsible for maintaining the earth as green-house with temperature conditions suitable for life?

A. Oxygen

B. CO_2

C. Hydrogen

D. Nitrogen

Answer:



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64. The main reservoirs of carbon are -

A. Sedimentary rocks

B. Fossil fuels

C. Oceans

D. All the above

Answer:



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65. Excessive amount of carbon dioxide and other green house gases has been emitted to the environment due to

A. Burning of fossil fuels, deforestation

B. Burning of fossil fuels, industrialization

C. Deforestation, industrialization

D. Burning of fossil fuels, deforestation,
industrialization

Answer:





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66. These are poisoned by elemental oxygen

A. Algae

B. Virus

C. Bacteria

D. All the above

Answer:



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67. Decomposition of organic waste requires

A. Hydrogen

B. Oxygen

C. Nitrogen

D. Phosphorous

Answer:



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68. The layer extends from the earth's surface up to about 10 kilometers in altitude is

A. Stratosphere

B. Ionosphere

C. Mesosphere

D. Troposphere

Answer:



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69. The number of oxygen atoms present in a molecule of ozone is-

A. 2

B. 3

C. 4

D. 5

Answer:



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70. Ozone layer absorbs these radiations of sun

- A. Infrared rays
- B. Ultraviolet rays
- C. Cosmic rays
- D. Gamma rays

Answer:



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71. These are responsible for destruction of ozone layer

A. Pesticides

B. CO_2

C. Chlorofluoro carbons

D. Hydrogen

Answer:



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72. To protect ozone layer, the protocol emerged was

A. Washington protocol

B. Montreal protocol

C. Vancouver protocol

D. Geneva protocol

Answer:



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73. The element present in diamond is

A. Carbon

B. Nitrogen

C. Hydrogen

D. Phosphorous

Answer:



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74. Which of the following organisms is a free living nitrogen fixer?

- A. Rhizobium
- B. Nitrosomonas
- C. Mycorrhiza
- D. None

Answer:



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75. Which of the following is the elemental form of carbon?

A. Graphite

B. Diamond

C. Soot

D. All the above

Answer:



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76. The elements that is common among proteins, DNA, RNA and Alkaloids

A. Carbon

B. Nitrogen

C. Sulphur

D. Mercury

Answer:



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77. The colour of ozone is

A. Green

B. Blue

C. Yellow

D. Pink

Answer:



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78. Which of the following is not a green house gas?



Answer:



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79. The percentage of CO_2 in the atmosphere is

A. 0.04 %

B. 0.4 %

C. 0.08 %

D. None of the above

Answer:



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80. Oxygen is returned to the atmosphere mainly by

- A. Respiration
- B. Photosynthesis
- C. Burning of wood
- D. Fungi

Answer:



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81. Ozone layer is getting depleted because of

A. Automobiles

B. Industrial units

C. Compounds of fluorine and chlorine

D. None

Answer:



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82. Which of the following is a green house gas?

A. CO_2

B. CFCs

C. CH_4

D. All the above

Answer:



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83. Montreal protocol substances on

- A. Ozone depletion
- B. Green house effect
- C. Air pollution
- D. Water pollution

Answer:



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84. The main source of CFCs.....

A. Refrigerators

B. Air conditioners

C. Jet Elights

D. All the above

Answer:



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85. Montreal protocol signed by 24 countries
in the year.....

A. 1985

B. 1984

C. 1987

D. 1990

Answer:



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86. Copenhagen meeting on revise of montreal protocol was held in the year

A. 1994

B. 1992

C. 1995

D. 1996

Answer:



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87. Direct exposure of U.V radiation causes

A. Skin cancer

B. Destroys marine life

C. Damage to crops

D. All the above

Answer:



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88. The ozone hole is observed here

A. Pacific ocean

B. Indian ocean

C. Antarctica region

D. Arctic region

Answer:



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89. These crops increase soil fertility

A. Food

B. Commercial

C. Legume

D. Vegetable

Answer:



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90. Symbiotic bacteria that fixes the nitrogen is

A. Nitrosomonas

B. Nitrobacter

C. Micorrhiza

D. Rhizobium

Answer:



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91. Carbon buried under the ocean floor might take this much of time to return to the atmosphere

A. 12 million

B. 14 Million

C. 15 million

D. 10 Million

Answer:



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92. The atmospheric layer continues from 10 km to about 50 km is

A. Troposphere

B. Ionosphere

C. Stratosphere

D. None

Answer:



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93. Which of the following is an inert gas?

A. Nitrogen

B. Oxygen

C. Methane

D. Xenon

Answer:



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94. Large amount of fresh water is present in

A. Seas

B. Rivers

C. Polar ice caps

D. Lakes

Answer:



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95. Very few animals and plants are present in deserts. Because

- A. There is sand
- B. There is very little water
- C. There are no roads
- D. It is hot in desert

Answer:



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96. Hydrological cycle occurs between

- A. Land and air
- B. Air and sea
- C. Land and sea
- D. Land, sea and atmosphere

Answer:



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