



BIOLOGY

BOOKS - SARAS PUBLICATION

ENVIRONMENTAL ISSUES

Example

1. What is ozone hole?



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2. Define afforestation.



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3. Define deforestation>



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4. What is greenhouse effect ? Explain.



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5. Discuss briefly the following:

Greenhouse gases



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6. Write a short note on global warming .



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7. What is an Ozone Shield?



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8. What is called bad ozone ?



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9. What is called good ozone?



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10. What is ozone?



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11. Define Dobson unit.



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12. What is meant by biological indicators ?

Give example .



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13. What is an Agroforestry?



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14. Define Silvopasture system.



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



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16. What is *Eichhornia crassipes*?



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17. What is Chipko movement?



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18. Define in-situ conservation.



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19. What are sacred groves? What is their role in conservation?



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20. What is Ex-situ conservation?



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21. What is an endemic species? Give example.



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22. What is CCS?



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23. What is carbon sequestration?



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24. Write a note on carbon foot print.



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25. What is 'Carbon sink'?



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26. Define biochar.



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27. What is rainwater harvesting? Explain in a few sentences how is it useful in in houses.



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28. What is meant by EIA?



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29. What is meant by biomonitoring in ecological point of view.



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30. What is meant by an agriculture drone?



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31. What is meant by EIA?



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32. What is GIS and write its expansion?



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33. Define GPS.



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



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35. What is meant by biodiversity impact assessment? How biodiversity impacts is

assessed?



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



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37. Cause of eutrophication is



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38. Write a short note on global warming .



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39. Define smog.



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40. What are agrochemicals?



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41. Give definitions for organic farming.



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42. What is dioxin?



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43. Define solid waste management?



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44. What is radioactive waste? How can it be managed.



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45. Define 'EcoSan'.



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46. What is Phytoremediation?



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47. What is colony collapse syndrome?



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48. Define natural vegetative reproduction.



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49. What is Bioremediation ?



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50. What is sameer?



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51. What is BOD?



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52. Give an example of plants, cultivated in commercial agroforestry.



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53. Expand CCS.



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54. How do forests help in maintaining the climate?



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55. What is ozone hole?



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



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57. Which one gas is most abundant out of the four commonest greenhouse gases? Discuss

the effect of this gas on the growth of plants?



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



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59. Explain afforestation with case studies.



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60. What are the consequences of deforestation?

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61. What are the benefits of agroforestry?

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62. What is greenhouse effect ? Explain.

 [Watch Video Solution](#)

63. Define greenhouse gases.



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64. List the greenhouse gases.



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65. What are the effects of increased greenhouse gases?



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66. List the human activities that produce green house effect.



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67. Write a short note on global warming .



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68. Which is considered as the major cause of global warming? Why?



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69. Clouds, dusts and humid nights are warmer than clear dust free dry nights. Discuss the global warming.



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70. What is an Ozone Shield?



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71. What is the function of the ozone shield?



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72. What is called bad ozone ?



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73. What is called good ozone?



Watch Video Solution

74. Define ozone.



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75. Define Dobson unit.



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76. What is the thickness of the ozone layer over the Earth surface?



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77. What does the false colour view of total ozone indicate?



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78. What are the effects of UV B radiations?



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79. Which type of radiation is completely filtered by the atmosphere?



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80. Which type of UV radiation is the most abundant in sunlight? What are the effects of this radiation?



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81. Define biological indicators. Give the other names.



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82. What is an Agroforestry?



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83. Define Silvopasture system.





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84. How is silvopasture system classified?



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85. Define social forestry.



[Watch Video Solution](#)

86. What are the goals of social forestry?





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87. What reduces the pressure on forests?



[Watch Video Solution](#)

88. Define deforestation.



[Watch Video Solution](#)

89. What are the consequences of deforestation?



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90. Define afforestation.



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91. What is invasive species?



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92. What is Eichhornia crassipes?



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93. What is Chipko movement?



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94. Where and by whom was Appiko movement started?



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95. Define in-situ conservation.



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96. Where are ecologically unique and biodiversity rich regions legally protected?



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97. What are sacred groves ?



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98. What is Ex-situ conservation?



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99. Define endemic species.



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100. What are the reasons for some species to be endemic?



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101. How many megacentres of endemism and microendemic centres are found in India?



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102. Name the major phytogeographical regions of India, where endemic flora of India are found.



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103. Give two good examples for endemic plants.



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104. Name the families to which most of the endemic plant species belong to.



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105. Why are majority of endemic species threatenend?



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106. What is CCS?



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107. Why is carbon capture and storage practised?



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108. What is the other name for CCS? Name some storage sites.



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109. What is carbon sequestration?



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110. Write a note on carbon foot print.



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111. How is carbon foot print expressed?



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112. Explain the term Carbon sink.



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113. Give the types of carbon sinks with examples.



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114. Define biochar.



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115. Define rainwater harvesting.



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116. What is meant by EIA?



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117. Write the benefits of EIA to society.



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118. What is meant by biomonitoring in ecological point of view.



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119. What is meant by an agriculture drone?



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120. What is meant by BIA? Define it.





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121. What is meant by GIS? Define it.



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122. Define GPS.



[Watch Video Solution](#)

123. List the areas where GPS is currently under use.



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124. Define remote sensing.



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125. Give the year of launch and applications of SCATSAT-I satellite.



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126. Name the 100th satellite. Give its year of launch and its applications.



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127. Give the applications of INSAT 3DR and GSAT-6A satellites.



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128. What are the reasons for the presence of diverse life forms in India?



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129. What rewards are given to CDM projects, when they meet kyoto targets?



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130. What are the effects of population explosion?



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131. Write the effects of global warming.



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132. Write the source of emission of the most abundant greenhouse gas?



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133. Give the sources of emission of the green house gas that is 20 times as efficient as CO_2 in trapping heat.



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134. A green house gas naturally produced in oceans _____.



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135. List some of the strategies to deal with global warming.



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136. List the plants that are used as biological indicators. Mention what they indicate for?



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137. What is the system that produces woody plants with pasture? Give its classification.



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138. Write about the steps taken to encourage tree cultivation outside forests in Tamil Nadu.



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139. What are the major activities carried out by forestry extension centres?



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140. Write the achievements of afforestation.



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141. Write in short about the movement which was based on the inspiration of Chipko

movement?



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142. Write about the endemic plant species in India.



[Watch Video Solution](#)

143. Write about the protocol signed at the Vienna conference.



[Watch Video Solution](#)

144. What is CDM? Explain.



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145. Method of conservation where species are protected outside their natural environment

-----.



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146. Mention some practices to reduce carbon foot print.



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147. Who is known as the 'forest man of India'?
Write about the honours provided for his service.



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148. Does ozone depletion bring about any serious issues. If yes, list them.



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149. Which invasive weed is a major cause of biodiversity loss worldwide? What impact does this bring about to the ecosystem?



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150. Write about the non-native species introduced in India to counter desertification and as a source of firewood? What are its benefits and impacts.



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151. Write in brief about the conservation movement started in Chamoli district.



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152. Name a technology adopted to mitigate global warming.

Write about it is brief.



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153. Which is the long term method to store carbon in plants? Write briefly about it. What are the benefits?



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154. What are the objectives of Afforestation programme?



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155. What is meant by invasive species? Explain its impact on the ecosystem.



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156. Write the importance of lakes.



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157. What is meant by biodiversity impact assessment? How biodiversity impacts is assessed?



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158. Write in detail about Remote sensing and its uses.



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Exercise

1. The 'thickness' of Stratospheric Ozone layer is measured in/on:

- A. Sieverts units
- B. Dabson units
- C. Melson units
- D. Beaufort scale

Answer:



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2. The use of microorganism metabolism to remove pollutants such as oil spills in the water bodies is known as

A. Biomagnification

B. Bioremediation

C. Biomethanation

D. Bioreduction

Answer:



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3. In the E-waste generated by the Mobile Phones, which among the following metal is most abundant?

A. Copper

B. Silver

C. Palladium

D. Gold

Answer:



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4. What is the App that is introduced to find out Air Quality Index(AQI)?

A. Facebook

B. Twitter

C. Google

D. Sameer

Answer:



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5. Who is honoure as Forest man of India?

A. Amrita Devi

B. Abhey Singh

C. Jadav Payeng

D. Sunderlal Bahuguna

Answer:



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6. What effect can fertilizer run off have on aquatic system?



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7. Why ozone hole forms over Antarctica ? How will enhanced ultraviolet radiation affect us ?



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8. How does recycling helps to reduce pollution?



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9. What would Earth be like without the greenhouse effect?



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10. What is the principle applied in EcoSan?



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11. What are the "physical methods" of wastewater treatment?



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12. List all the wastes that you generate, at home, school or during your trips to other places. Could you very easily reduce the generation of these wastes? Which would be difficult or rather impossible to reduce?



Watch Video Solution

13. List all the wastes that you generate, at home, school or during your trips to other places. Could you very easily reduce the generation of these wastes? Which would be difficult or rather impossible to reduce?



Watch Video Solution

14. List all the wastes that you generate, at home, school or during your trips to other places. Could you very easily reduce the

generation of these wastes? Which would be difficult or rather impossible to reduce?



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15. What are some solutions to toxic dumping in our oceans?



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16. Describe how deforestation might contribute to global warming.



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17. Is it safe to use mosquito repellants? Why?



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18. Explain the effect of oil spills on organisms.



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19. Discuss the causes and effects of global warming. What measures need to be taken to control global warming?



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20. Discuss the role of women in protection and conservation of forests.



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21. What are agrochemicals?



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22. List the negative impact of agrochemicals.



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23. Find the wrongly matched pair.

- A. Endemism- Species confined to a region
an not found anywhere else
- B. Hotspots-Western Ghats
- C. Ex-situ conservation-Zoological
- D. sacred groves- Saintri hills of Rajsthan

Answer:



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24. Deforestation does not lead to

A. Quick nutrient cycling

B. Soil erosion

C. Alteration of local weather conditions

D. Destruction of natural habitat, weather conditions.

Answer:



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25. The plants which are grown in silvopasture system are

- A. Sesbanian and Acacia
- B. Solanum and Crotalaria
- C. Clitoria and Beonia
- D. Teak and Sandal

Answer:



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26. Gladiolus serves as an indicator for

A. SO_2 pollution

B. Nitrate pollution

C. Heavy metal contamination

D. Fluoride pollution

Answer:



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27. Which is not an effect of global warming on plants?

A. Increase of vectors and epidemics

B. Increased resistance to infection

C. Species extinction

D. Water crisis and decreased irrigation.

Answer:



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28. Give an example of plants, cultivated in commercial agroforestry.



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29. How do forests help in maintaining the climate?



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30. What is ozone hole?



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31. Define Dobson unit .



Watch Video Solution

32. Will importing fruit like Kiwi increas CFP?

Give reason.



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33. Give the year of launch and applications of SCATSAT-I satellite.



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34. Which one gas is most abundant out of the four commonest greenhouse gases? Discuss the effect of this gas on the growth of plants?



Watch Video Solution

35. Which one gas is most abundant out of the four commonest greenhouse gases? Discuss the effect of this gas on the growth of plants?



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



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37. Give an example of plants, cultivated in commercial agroforestry.



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38. Expand CCS.



Watch Video Solution

39. Write a short note on Chipko Movement.



Watch Video Solution

40. Write about the endemic plant species in India.



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



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42. Name a technology adopted to mitigate global warming.

Write about it is brief.



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43. 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:



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44. 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 statement A and B are correct.

C. Statement A is correct and Statement B is wrong.

D. Both statement A and B are wrong.

Answer:



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45. 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

(e) Alien sp. of India - Water hyacinth

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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46. 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:



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47. 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:



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48. 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:



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49. 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:



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50. 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:



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51. The unit for measuring ozone thickness

A. Joule

B. Kilos

C. Dobson

D. Watt

Answer:



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

- A. Chipko movement
- B. Amrita Devi Bishnoi movement
- C. Appiko movement
- D. None of the above

Answer:



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53. The plants which are grown in silivpasture system are

- A. Sesbania and Acacia
- B. Solanum and Crotalaria
- C. Clitoria and Begonia
- D. Teak and sandal

Answer:



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54. Which of these is not a green house gas

A. Nitrous oxide

B. CFC

C. Sulphur dioxide

D. Methane

Answer:



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55. Green house gases emitted by burning fossil

A. CO_2 and methane

B. NO_2 and methane

C. SO_2 and CO_2

D. SO_2 and CO

Answer:



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56. Green house gas emitted from refrigerators and air conditioners is

A. Methane

B. CO_2

C. N_2O

D. Chlorofluorocarbon

Answer:



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57. Green house effect is not produced by:

- A. Emissions from automobiles
- B. Clouds and dust particles
- C. Afforestation practices
- D. Use of electrical gadgets

Answer:



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58.is the abundant green house gas?

A. CO_2

B. CH_4

C. NO_2

D. CFC

Answer:



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59. Which gas is effective as CO_2 in trapping heat in the atmosphere?

A. SO_2

B. CH_4

C. CO

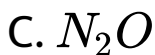
D. NH_3

Answer:



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60. Which green house gas is naturally produced in oceans from biological sources of soil and water?



Answer:



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61. Which is not an effect of global warming on plants?

- A. Increase of vectors and epidemics
- B. Increased resistance to infection
- C. species extinction
- D. Water crisis and decreased irrigation

Answer:



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62. Which is called bad ozone?

- A. Ozone layer of the stratosphere
- B. Ozone layer of the troposphere
- C. Ozone layer of the mesosphere
- D. Ozone layer of the exosphere

Answer:



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63. Which is called good ozone?

A. Ozone layer of the stratosphere

B. Ozone layer of the troposphere

C. Ozone layer of the mesosphere

D. Ozone layer of the exosphere

Answer:



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64. What is the thickness of the ozone layer over the Earth surface?

A. 30 DU

B. 100 DU

C. 300 DU

D. 200 DU

Answer:



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65. Which day is observed as world ozone day?

A. *September*16

B. *March*16

C. *December*16

D. *Jy*16

Answer:



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66. Which is the most damaging type of UV radiation?

A. UV-B

B. UV-C

C. UV-A

D. UV-D

Answer:



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67. Which international treaty was signed in 1987 to gradually eliminate production and consumption of ozone depleting substances?

A. Montreal protocol

B. Kyoto protocol

C. CDM project

D. Vienna convention

Answer:



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68. Plants like lichens, Ficus, Pinus and rose are indicators of.....pollution.

A. CO_2

B. SO_2

C. CH_4

D. N_2O

Answer:



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69. Which plant serves as an indicator of nitrate pollution?

A. Ficus

B. Petunia

C. Gladiolus

D. Robinia pseudoacacia

Answer:



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70. Which plant serves as an indicator of SO_2 pollution?

A. Ficus

B. Lichen

C. Gladiolus

D. Robinia pseudoacacia

Answer:



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71. Gladiolus serves as an indicator for

A. SO_2 pollution

B. Nitrate pollution

C. Heavy metal contamination

D. Fluoride pollution

Answer:



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72. Which plant is an indicator of heavy metal contamination?

A. Lichens

B. Chrysanthemum

C. Robinia pseudoacacia

D. Gladiolus

Answer:



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73.is not the effect of decreased photosynthesis

A. Flood

B. Increased atmospheric CO_2

C. Global warming

D. Shortage of food

Answer:



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74. Agroforestry mean

A. Integration of trees, crops and livestock
on the same plot of land

B. Rehavilitation of degraded forests

C. Cutting down trees

D. Alteration of forest ecosystem for
dwellers in rural area.

Answer:



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75. Name the person who single handedly created dense forest

A. Sudhir Kumar Sopory

B. Sunderlal Bahuguna

C. Jadav Payeng

D. Pandurang Hegde

Answer:



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76. According to world conservation union, which is the second significant threat to biodiversity?

- A. Habitat loss
- B. Alien invasive species
- C. Deforestation
- D. Afforestation

Answer:



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77. Which movement was started in Himalayas as a protest against exploitation of forest?

- A. Chipko movement
- B. Appiko movement
- C. Silent valley movement
- D. Bishnoi movement

Answer:



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78. Which is not a biosphere reserve of Tamil Nadu?

- A. Megamalai
- B. Agasthyamalai
- C. Gulf of Mannar
- D. Kolli hills

Answer:



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79. Which is an endemic plant?

A. *Nepenthes khasiyana*

B. *Avena sativa*

C. *Brassica oleracea*

D. *Secale cereale*

Answer:



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80. Which microalgae is used globally for CO_2 sequestration?

- A. Spirulina
- B. Chroococcus
- C. Dunaliella
- D. Aphanizomenon

Answer:



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81. Which does not have the ability to mitigate CO_2 ?

- A. Mangroves
- B. Macroalgae
- C. Marine grasses
- D. Orchids

Answer:



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82. Which practice do not reduce the carbon foot print?

A. Buying fast and preserved packed foods.

B. Planting a garden

C. Reduced use of electronic devices

D. Eating indigenous fruits and products

Answer:



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83. Biochar is a long term storage of.....

A. CFC

B. Bromine

C. Carbon

D. CH_4

Answer:



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84. Which is not a use of geographic information system?

A. Predicting favourable climate

B. Environmental impact assessment

C. Soil mapping

D. Mapping of threatened and endemic species

Answer:



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85. What is the application of the satellite INSAT 3DR?

- A. Weather forecasting
- B. Disaster management
- C. Communication
- D. Cyclone prediction

Answer:



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86. Which type of UV radiation causes skin aging?

A. UV A radiation

B. UV B radiation

C. UV C radiation

D. UV D radiation

Answer:



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87. Name the type of UV radiation that causes tanning and burning of skin?

A. UV A radiation

B. UV B radiation

C. UV C radiation

D. UV D radiation

Answer:



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88. Agroforestry is recommended.....

A. To produce fodder for livestock

B. To improve soil

C. for alternate land use pattern

D. for extension of forests

Answer:



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89. Nutrient cycling between species is achieved through.....

A. Social forestry

B. Silvopasture

C. Agroforestry

D. Afforestation

Answer:



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90. What is the main purpose of protein banks?

- A. Protect land from stray animals
- B. To bring about restoration
- C. For fodder production
- D. To improve soil

Answer:



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91. Which tree is not identified as commercial timber?

A. Eucalyptus

B. Acacia

C. Kadambu

D. Casuarina

Answer:



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92. Decreased photosynthesis leads to

- A. Increased atmospheric CO_2
- B. Decreased atmospheric CO_2
- C. Increased rainfall pattern
- D. Decreased soil erosion

Answer:



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93. Identify the wrong statement with respect to *Prosopis juliflora*.

A. It is an aggressive coloniser

B. It is used to arrest wind erosion

C. Its invasion increased native medicinal herbaceous species

D. It stabilizes sand dunes on desert areas

Answer:



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94. Match the following:

a. *Prosopis juliflora* - i. Protein bank

b. *Robinia*

pseudoacacia - ii. Endemic plant

c. *Acacia nilotica* - iii. Plant indicator

d. *Hardwickia binata* - iv. Invasive species

A. a-i, b-iv, c-iii, d-i

B. a-iv, b-iii, c-i, d-ii

C. a-iii, b-i, c-iv, d-i

D. a-i, b-iii, c-ii, d-iv

Answer:



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95. Identify the sacred grove found in Tamil Nadu?

- A. External inputs such as emissions, effluents and chemicals
- B. fragmentation and isolation
- C. Change in land use and cover

D. Changes in farm land

Answer:



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96. Which group considers cloning as a threat to biodiversity? Why?

A. Statement A is correct and Statement B is wrong.

B. Both statement A and B are correct.

C. Statement A is correct and Statement B is wrong.

D. Both statement A and B are wrong.

Answer:



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97. With respect to Green House effect.

Statement A: Clouds, dusts and humid nights are warmer than clear dust free day nights.

Statement B: Clouds and dust particles produce green house effect.

A. Statement A is correct and Statement B is wrong.

B. Both statement A and B are correct.

C. Statement A is correct and Statement B is wrong.

D. Both statement A and B are wrong.

Answer:



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98. With respect to endemic species

Statement A: They are widely distributed in many geographical regions.

Statement B: They are threatened due to low dispersal rate.

A. Statement A is correct and Statement B is wrong.

B. Both statement A and B are correct.

C. Statement A is correct and Statement B is wrong.

D. Both statement A and B are wrong.

Answer:



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99. With regards to carbon sequestration.

Statement A: It increases the amount of CO_2 in the atmosphere.

Statement B: It is accomplished through deforestation

A. Statement A is correct and Statement B is wrong.

B. Both statement A and B are correct.

C. Statement A is correct and Statement B is wrong.

D. Both statement A and B are wrong.

Answer:



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100. With regards to carbon sink.

Statement A: It is a system that accumulates more atmospheric carbon during a given time interval.

Statement B: Landfills are considered as artificial sinks.

A. Statement A is correct and Statement B is wrong.

B. Both statement A and B are correct.

C. Statement A is correct and Statement B is wrong.

D. Both statement A and B are wrong.

Answer:



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101. With regards to Biochar.

Statement A: It is a stable solid rich in carbon.

Statement B: It endures in soil for few years.

A. Statement A is correct and Statement B is wrong.

B. Both statement A and B are correct.

C. Statement A is correct and Statement B is wrong.

D. Both statement A and B are wrong.

Answer:



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102. With regards to carbon footprint.

Statement A: Eating indigenous fruits and products do not reduce carbon footprint.

Statement B: Carbon footprint can be measured for an individual.

A. Statement A is correct and Statement B is wrong.

B. Both statement A and B are correct.

C. Statement A is correct and Statement B is wrong.

D. Both statement A and B are wrong.

Answer:



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103. Which is not a benefit of rain water harvesting?



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