



CHEMISTRY

BOOKS - CHHAYA CHEMISTRY (BENGALI ENGLISH)

ENVIRONMENTAL CHEMISTRY

Warm Up Exercise

1. Give one example of each of primary & secondary pollutants.



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2. What is biodegradable pollutants ? Give example.



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3. What is non-biodegradable pollutant ? Give example.



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4. What do you understand by pathways of pollutants ?



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5. What does threshold limit value imply ?



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6. What is the cause of Bhopal gas tragedy ?



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7. What is the difference between pollutant & contaminant ?



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8. What are the principle constituents of environment ?



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9. What do you mean by homosphere and heterosphere?



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10. Name the main gases present in the troposphere with the altitude from the earth's surface and temperature-range for each of the gases.



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11. Name a nitrogen fixing bacteria.



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12. Briefly mention the role of ozone present in stratosphere in protecting the living world.



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13. Name some of the chief air pollutions.



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14. Mention four natural sources of air pollution.



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15. Name some pollutants emitted from thermal power plant.



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16. What is fly ash ?



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17. Name the main air-pollutant that present in the automobile exhausts.



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18. What are the sinks for CO_2 and CO gases ?



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19. Among the air pollutants which gas is responsible for the damage caused to Taj Mahal .



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20. Mention three hydrocarbons which function as air-pollutants.



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21. What are the harmful effects of polycyclic aromatic hydrocarbons (PAH) ?



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22. Name three primary and three secondary air pollutants.



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23. Mention the harmful effects of NO_x and SO_x



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24. What do you mean by 'silicosis' and asbestosis ?



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25. Name the main metallic pollutant present in automobile exhausts. Mention its harmful effects.



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26. Name some hydrocarbons that are present in the atmosphere as organic particulate.



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27. What is chlorosis ?



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28. How are O_3 and O_2 levels maintained in stratosphere ?



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29. Name the compounds responsible of ozone hole formation .



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30. Mention of role of : (i) NO, (ii) CFC in the formation of ozone hole.



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31. What are the adverse effects of ozone hole on human beings ?



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32. Why the temperature of stratosphere increases with increase in height ?



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33. What are halons ? State their uses .



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34. Mention the role of NO in the formation of ozone hole .





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35. What is ozonosphere ?



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36. Which unit is used to measure the columnar density of O_3 gas in earth's atmosphere ?



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37. Give example of greenhouse gases.



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38. Which gas has maximum contribution to greenhouse effect ?



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39. Mention the importance of greenhouse effect .



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40. What measures should taken to control global warming.



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41. Why measures should be taken to control global warming .



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42. What is greenhouse effect ?



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43. What is global warming ?



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44. What is London smog (ordinary smog) ?



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45. Mention the season and time of the day when London smog is generally observed.



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46. Mention the constituents of London smog.



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47. What do you by photochemical smog ?



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48. Mention the season and time of the day when Los Angeles smog is generally observed.



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49. Which region is most susceptible for the formation of photochemical smog ?



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50. Give the full form of PAN



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51. Why is photochemical smog called Los Angeles smog ?



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



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53. What are the adverse effects of acid rain ?



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54. What do you mean by stone cancer ? What is the reason behind it ?



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55. Which acid contributes most to the formation of acid rain ?



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56. Mention of pH limit of acid rain.



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57. There is tendency of environmental degradation of Tajmahal- Explain.



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58. Define BOD and COD.



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59. which of the following has higher value:
COD or BOD?



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60. Mention two diseases originating from water Pollutions.



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61. How do the Itai-Itai and Minamata break out ?



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62. What is black foot disease ?



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63. Write a brief not on Eutrophication.



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64. What are the two main constituents of detergent ? How do they cause water pollution ?



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65. What is biomagnification ?



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66. What do you mean by hypothermia ?



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67. Give two examples of chlorinated organic pesticides.



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68. What is humus ? Mention the significance of humus ?



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69. Mention the constituents of soil used for farming.



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70. How does the land used for farming get polluted ?



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71. What is loam soil ?



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72. Give two examples of each of insecticide and herbicide.



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73. How do you control increased acidity and basicity of soil ?



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74. Mention the advantage and disadvantages of using tetrachloroethylene and CO_2 as dry cleaning agent.



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75. Give one example of a fire extinguisher which made by Pyrocool technology ?



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76. Green chemistry has made a significant contribution to control environmental pollution-Comment on the given statement .



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77. What is sonochemistry ?



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78. What is photochemical reaction ?



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Question Answer Zone For Board Examination

Very Short Answer Type

1. What are the chief air pollutants ?



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2. Name four natural sources of air pollution.



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3. What are the main pollutants emitted from thermal power plants?



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4. Name the sink of CO.



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5. Name two sinks of CO_2 .



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6. What class of people are susceptible to attack of black lung and white lung diseases?



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7. Which people are very prone to the diseases such as silicosis and asbestosis?



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8. What is ozone umbrella? Why is it called so?



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9. In -hospitals, patients with CO poisoning are kept in high pressure chamber containing oxygen at 2 to 2.5 atm pressure-why?



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10. Which aromatic compound is present in the air as particulate'?



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11. Why does the population of fish get hindered in thermally polluted water?



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12. What is PCB?



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13. Why Los Angeles Smog is called photochemical smog?



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14. What is the role of CO_2 in creating greenhouse effect ?



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15. What is anoxia or asphyxiation?



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16. What is chlorosis?



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17. What is humification ?



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18. What is Polar Stratospheric Clouds (PSCs)?



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19. What is the role of particulates in the formation of cloud?



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20. What are the main compounds responsible for causing damage to ozone-layer?



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21. In which regions of atmosphere, temperature increases with altitude and in which regions it decreases?



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22. In which season the depletion of ozone layer on Antarctica takes place and when is it replenished?



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23. What is the role of builder in synthetic detergents?



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Question Answer Zone For Board Examination

Short Answer Type

1. How are NO and NO_2 produced in the atmosphere?



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2. In presence of carbon monoxide, haemoglobin loses its oxygen-carrying capacity causing oxygen starvation of body cells-explain



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3. What are particulates? Give examples.



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4. Many spray-bottles from which a perfume is sprayed contain a very harmful substance. By what name is it commonly known? Why is it harmful?



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5. What is hypothermia ?



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6. What were the components of London Smog ? What was its nature ?



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7. What were the components of Los Angeles smog? What was its nature?



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8. How does the Tajmahal get affected by the environmental pollution?



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9. Name the greenhouse gases and mention their sources due to human activities.



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10. What is atomic power plant ?



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11. What is Chernobyl disaster ?



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12. What is the cause of this accident ?



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13. What is the temperature range of atmosphere?



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14. What do you mean by inversion temperature in different regions of the atmosphere ?



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15. What is marine pollution ?



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16. What is siltation ?



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17. What is Polar Vortex ?



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18. What is Polar Vortex effect ?



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Solved Wbchse Scanner

1. Indicate the correct answer: Among the following gases ____ is a greenhouse gas (NO_2 , N_2O , SO_2 , NO).



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2. Fill in the blank: The causes of Minamata is _____ containing effluent.

Indicate the right answer: In which region there is greater possibility of formation of photochemical smog

(a) region where large number of automobiles are used

(b) region where sulphur containing coal is used

marshy land region

forest region



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3. How is agricultural land polluted?



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4. How does ozone layer prevent the incidence of harmful UV-radiation on the earth's surface?



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5. How can global warming be controlled?



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6. Name two components of photochemical smog and mention one of the harmful effects of this smog.



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7. What are the major components of acid rain?



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8. How is soil polluted by excess use of ammonium sulphate?



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9. Name one organic and one inorganic greenhouse gases. How do they effect in global warming?



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10. Acid rain is a dilute aqueous solution of which of the following pairs of acids_____



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11. Write one effect of depletion of ozone layer and one measure for the prevention of ozone layer depletion.



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12. Which of the following metallic air pollutants is present in the gas emitted by motor vehicles

A. iron

B. lead

C. copper

D. mercury

Answer:



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13. Which of the following is not a Greenhouse gas----

A. CFC

B. ammonia

C. carbon dioxide

D. methane

Answer:



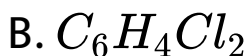
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14. What is BOD? Write one harmful effect of it.



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15. Which compound is responsible for hole formation in stratosphere of ozone layer-



Answer:



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16. Write short notes on Eutrophication.



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17. Which of the following gases emitted by motor vehicles is responsible for the formation of photochemical smog---

A. SO_2

B. CO

C. NO

D. CO_2

Answer:



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18. Mention two causes of soil pollution.



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19. How does the increase in the amount of CO_2 in the atmosphere lead to global warming?





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Solved Ncert Exercise

1. Define environmental chemistry.



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2. Explain tropospheric pollution in 100 words.



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3. Carbon monoxide gas is more dangerous than carbon dioxide gas. Why?



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4. List gases which are responsible for greenhouse effect.



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5. Statues and monuments in India are affected by acid rain. How?



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6. What is smog! How is classical smog different from photochemical smogs?



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7. Write down the reactions involved during the formation of photochemical smog.



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8. What are the harmful effects of photochemical smog and how can they be controlled?



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9. What are the reactions involved for ozone layer depletion in the stratosphere?



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10. What do you mean by ozone hole? What are its consequences?.



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11. What are the major causes of water pollution? Explain.



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12. Have you ever observed any water pollution in your area? What measures would you suggest to control it?



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13. What do you mean by Biochemical Oxygen Demand (BOD)?



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14. Do you observe any soil pollution in your neighbourhood? What efforts will you make for controlling the soil pollution?



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15. What are pesticides and herbicides? Explain giving examples.



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16. What do you mean by green chemistry?

How will it help decrease environmental pollution?



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17. What would have happened if the greenhouse gases were totally missing in the earth's atmosphere? Discuss.



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18. A large number of fish are suddenly found floating dead on a lake. There is no evidence of toxic dumping but you find an abundance of phytoplankton. Suggest a reason for the fish kill.



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19. How can domestic waste be used as manure?



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20. For your agricultural field or garden you have developed a compost producing pit. Discuss the process in the light of bad odour, flies and recycling of wastes for a good produce.



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Higher Order Thinking Skill Questions

1. What do you mean by reducing smog and oxidising smog?



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2. What is Montreal Protocol ?



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3. What is Bhopal gas tragedy? Mention the after effect of Bhopal gas tragedy.



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4. In stratosphere, ozone is useful but in troposphere it is harmful to us- explain.



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5. The extensive depletion of ozone layer occurs in the months of September to October. Explain this phenomenon.



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Entrance Question Bank Wbjee

1. The ozone layer forms naturally by-

A. the interaction of CFC with oxygen

B. the interaction of UV-radiation with
oxygen

C. the interaction of IR radiation with
oxygen

D. the interaction of oxygen and water vapour

Answer:



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2. Among the followings, the one which is not a "greenhouse gas" is

A. N_2O

B. CO_2

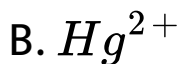


Answer:



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3. Metal ion responsible for the Minamata disease is





Answer:



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Entrance Question Bank Jee Main

1. What is DDT among the following-

A. a fertilizer

B. biodegradable pollutant

C. non-biodegradable pollutant

D. greenhouse gas

Answer:



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2. The gas leaked from a storage tank of the Union Carbide plant in Bhopal gas tragedy was-

A. phosgene

B. methylisocyanate

C. methylamine

D. ammonia

Answer:



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3. The concentration of fluoride, lead, nitrate and iron in a water sample from an underground lake was found to be 1000 ppb,

40 ppb, 100 ppm and 0.2 ppm respectively. The water is unsuitable for drinking due to high concentration of-

A. fluoride

B. lead

C. nitrate

D. iron

Answer:



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4. A water sample has ppm level concentration of following anions, $F(-) = 10$, $SO_4^{2-} = 100$, $NO_3^- = 50$. The anion/ anions that make/makes the water sample unsuitable for drinking is/ are

A. only $F(-)$

B. only SO_4^{2-}

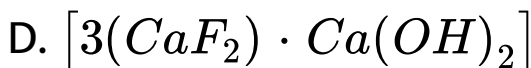
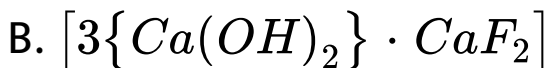
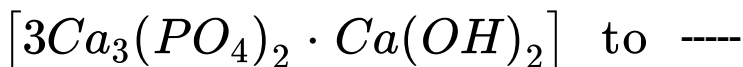
C. only NO_3^-

D. both SO_4^{2-} and NO_3^-

Answer:



5. The recommended concentration of fluoride ion in drinking water is upto 1 ppm as fluoride ion is required to make teeth enamel harder by converting



Answer:



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Entrance Question Bank Neet

1. Which one of the following statements is not true-----

A. oxides of sulphur, nitrogen and carbon
are the most widespread air pollutant

B. pH of drinking water should be between

5.5-9.5

C. concentration of DO below 6 ppm is

good for the growth of fish

D. clean water would have a BOD value of

less than 5 ppm

Answer:



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2. Which one of the following statements regarding photochemical smog is not correct--

A. photochemical smog is formed through photochemical reaction involving solar energy

B. photochemical smog does not cause irritation in eyes and throat

C. carbon monoxide does not play any role in photochemical smog formation

D. photochemical smog is an oxidising agent in character

Answer:



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3. Which one of the following is not a common component of photochemical smog----

A. ozone

B. acrolein

C. peroxyacetyl nitrate

D. chlorofluorocarbons

Answer:



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4. Which of the following is a sink for CO₂---

A. microorganisms present in the soil

B. oceans

C. plants

D. haemoglobin

Answer:



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5. Which oxide of nitrogen is not a common pollutant introduced into the atmosphere both due to natural and human activity-

A. NO

B. N_2O_5

C. N_2O

D. NO_2

Answer:



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6. Living in the atmosphere of CO is dangerous, because it,---

A. combines with O_2 present inside to form



B. reduces organic matter of tissues

C. combines with haemoglobin and makes
it incapable to absorb oxygen

D. dries up the blood

Answer:



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7. Which of the following is not a greenhouse
gas---

A. hydrogen

B. carbon dioxide

C. methane

D. nitrous oxide or N_2O

Answer:



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8. Which of the following has highest concentration of PAN-----

A. smoke

B. ozone

C. photochemical smog

D. reducing smog

Answer:



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9. Which of the following is not a greenhouse gas?

A. carbon dioxide

B. water vapours

C. methane

D. oxygen

Answer:



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Mcqs

1. Which air pollutant does not evolve from motor vehicles

A. formaldehyde

B. carbon monoxide

C. fly ash

D. sulphur dioxide

Answer: C



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2. Top most layer of atmosphere is

A. stratosphere

B. troposphere

C. exosphere

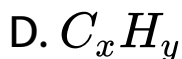
D. ionosphere

Answer: C



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3. Which of the followings is not an air pollutant



Answer: B



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4. Which of the followings has the highest affinity towards haemoglobin.

A. CO

B. NO

C. O_2

D. CO_2

Answer: A



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5. Which gas is not present in ozone layer

A. O_2

B. O_3

C. N_2

D. CO_2

Answer: D



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6. Fluoride pollution mainly affects-

A. teeth

B. brain

C. kidney

D. heart

Answer: A



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7. Which metal is mainly responsible for the declining of Roman Empire

A. copper

B. lead

C. arsenic

D. zinc

Answer: B



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8. Which of the given pollutants does not affect the lungs

A. CO

B. SO_2

C. CO_2

D. NO_2

Answer: C



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9. Which of the following statements is not true

A. ozone gas has no role in greenhouse effect

B. ozone gas oxidises sulphur dioxide of the atmosphere to sulphur trioxide

C. gradual thinning of ozone layer leads to the formation of ozone hole

D. oxygen molecule in stratosphere forms
ozone molecule in presence of
ultraviolet radiation

Answer: A



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10. Although nitrogen and oxygen are the major constituents of air, they are not react with each other to produce oxides of nitrogen because-

A. as the reaction is exothermic, high temperature is required

B. catalyst is required for the initiation of the reaction

C. oxides of nitrogen are unstable

D. nitrogen and oxygen do not take part in the reaction

Answer: A



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11. Which of the followings is secondary air pollutant

A. CO

B. C_2H_y

C. PAN

D. NO

Answer: C



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12. Which of the given fuels used in motor vehicles is environment friendly

A. dye

B. petrol

C. LPG

D. CNG

Answer: D



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13. Major source of methane in India-

- A. fruit garden
- B. sugarcane field
- C. paddy fields
- D. wheat fields

Answer: C



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14. Cause of byssinosis diseases

- A. fly ash
- B. cement particles
- C. cotton fibre
- D. lead particles

Answer: C



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15. Poisonous substance used in paper is-

A. cadmium

B. lead

C. manganese

D. mercury

Answer: B



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16. Which reaction is carried out in the catalytic converter of motor vehicles to eliminate NO_x from smoke-

A. oxidation

B. reduction

C. both oxidation-reduction

D. none

Answer: B



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17. Which of the following causes depletion in ozone layer indirectly

A. SO_2

B. CFC

C. H_2O

D. NO

Answer: A



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18. Incomplete combustion of gasoline produces-



Answer: B



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19. Value of pH in drinking water-

A. between 5.3 to 6.5

B. > 5.5

C. between 5.5 to 9.5

D. > 9.5

Answer: C



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20. The radiation having specific biological effect but unable to cause ionisation is-

A. UV-radiation

B. β - ray

C. γ - ray

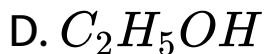
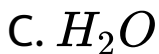
D. X - ray

Answer: A



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21. Which of the following compounds increases BOD value of water supply



Answer: D



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22. Which is most harmful for human being-

A. UV-A

B. UV-B

C. UV-C

D. UV-D

Answer: C



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23. DDT and BHC are-

A. antibiotic

B. chemical fertilizer

C. non-biodegradable pollutant

D. biodegradable compound

Answer: C



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24. Which component of motor vehicle smoke causes nerve and mental diseases

A. Hg

B. SO_2

C. Pb

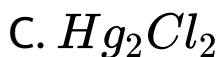
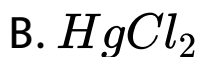
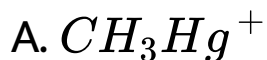
D. NO

Answer: C



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25. Which mercury compound is most toxic in nature



D. Hg metal

Answer: A



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26. Example of herbicide

A. DDT

B. triazines

C. methylmercury

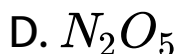
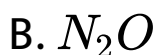
D. PCBS

Answer: B



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27. Which nitrogen oxide is not major air pollutant



Answer: D



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28. pH of natural rain water

A. 6.5

B. 3.5

C. 4.6

D. 5.6

Answer: D



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29. Which water pollutant metal causes sterility disease-

A. Cu

B. Hg

C. Cd

D. Mn

Answer: D



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30. Minimum permissible level of sound pollution is-

A. 75 dB

B. 65 dB

C. 55 dB

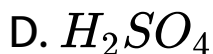
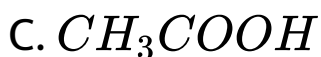
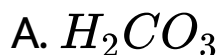
D. 50 dB

Answer: A



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31. In acid rain which of the following are present



Answer: A::B::D



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32. If fertilizer containing phosphate is dissolved in water

A. amount of dissolved oxygen decreases

B. calcium phosphate precipitates

C. growth of fishes increases

D. growth of aquatic plants increases

Answer: A::D



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33. Result of global warming-

A. temperature of earth's surface will increase

B. glacier of Himalayan region will melt

C. demand of bio-chemical oxygen will increase

D. eutrophication

Answer: A::B



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34. Which are responsible for photochemical smog

A. oxides of nitrogen

B. hydrocarbons

C. carbon monoxide

D. noble gases

Answer: A::B::C



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35. Which gases absorb IR-radiation

A. O_2

B. N_2

C. CO_2

D. CFC

Answer: C::D



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36. Depletion in ozone layer is caused by

A. SO_2

B. halons

C. NO

D. C_xH_Y

Answer: B::C



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37. Which of the following states are responsible for environmental pollution

A. pH value in rain water is 5.6

B. eutrophication

C. BOD value in water sample is 15 ppm

D. amount of CO_2 in atmosphere in troposphere-

Answer: B::C



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38. Which processes are occurred in troposphere-

- A. photosynthesis
- B. combustion
- C. greenhouse effect
- D. acid rain

Answer: A::B::C::D



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39. Which statements are true-

A. mainly the effects of HNO_3 is more in acid rain

B. NO is more toxic than NO_2

C. ozone gas is responsible for greenhouse effect

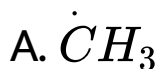
D. IR-radiation cannot pass through CO_2 gas but gets absorbed by it

Answer: C::D



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40. Which radical cause depletion in Ozone layer-

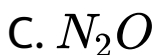


Answer: C::D



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41. Which greenhouse gases produce in agriculture field-



Answer: A:C



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42. Which are the following statements are incorrect

A. SO_2 does not affect the larynx

B. SO_2 is more harmful pollutant than SO_3

C. in case of living cell NO_2 is more toxic than NO

D. there is no role of NO_x in photochemical smog.

Answer: A::B::D



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43. Diseases caused by the harmful effects of SO_2 -

- A. digestion problem
- B. breathing problem
- C. bronchitis
- D. asthma

Answer: B::C::D



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44. Which of the following processes are responsible for the formation of CO_2 in atmosphere

A. respiration

B. combustion of fossil fuel

C. decay of animals

D. production of cement in factories

Answer: B::D



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45. Which of the following react to produce PAN-

A. NO_2

B. O_2

C. hydrocarbon

D. CO_2

Answer: A::B::C



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46. Which constituents of photochemical smog are responsible for eye-irritation-

A. ozone

B. PAN

C. hydrocarbon

D. O_2

Answer: A::B



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47. Main constituents of London smog are

A. oxides of sulphur

B. O_2

C. O_3

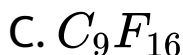
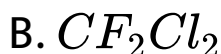
D. oxides of nitrogen

Answer: A::D



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48. Which of the followings are responsible for depletion of ozone layer in stratospher-



Answer: B::D



49. Which of the followings are primary pollutants

A. PAN

B. SO_2

C. NO_2

D. Me_2Hg

Answer: B::C



50. Contribution of CO_2 and CH_4 in green house effects-

- A. contribution of CO_2 is 50 %
- B. contribution of CH_4 is 16 %
- C. contribution of CO_2 is 19 %
- D. contribution of CH_4 is 19 %

Answer: A::D



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Very Short Type Questions

1. Which of the atmospheric layers contains maximum ozone gas ?



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2. Mention the range of temperature of the atmosphere?



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3. What is the main source of carbon monoxide in the atmosphere ?



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4. Which one is more harmful to the human body-CO or CO_2 ?



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5. What are the main pollutants produced by forest fire?



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6. What are the major pollutants emitted by thermal powerplants?



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7. What are the acids present in acid rain?



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8. What is the size of the particulates?



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9. What is the main chemical responsible for Bhopal gas tragedy?



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10. By which disease the workers of asbestos factories suffer from?



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Fill In The Blanks

1. The total mass of gaseous substance in the atmosphere is nearly_____.



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2. Amount of CO_2 in the atmosphere is approximately_____.



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3. CO, when mixed with blood, forms _____



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4. The word, CFC means _____



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5. The word, PAN stands for _____.





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6. The formation of ozone hole increases the tendency of human being to be attacked by_____



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7. One remarkable phenomenon happened in the troposphere is_____



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8. Between NO_2 and NO,_____ is more harmful.



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9. The word PAH denotes_____.



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10. The lung disease caused by silica is _____.



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Short Type Questions

1. What do you mean by 'source' and 'sink' of a pollutant?



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2. What are the differences between pollutant and Contaminant?



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3. What is the receptor or target of a pollutant?



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4. What do you mean by pathway of a pollutant?



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5. What does the threshold limit value (TLV) of a pollutant signify ?



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6. How does nitric oxide cause depletion of ozone layer?



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7. What is eutrophication?



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8. Mention the effects of water pollution caused by detergents.



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9. How is biochemical oxygen demand (BOD) of water expressed?



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10. What is the relation between the BOD and COD of a water Sample with its extent of pollution?



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11. What do you mean by COD of a water sample? Can the BOD value of any water sample be greater than the COD value of it? Explain



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12. The presence of any substance which is highly nutritious to plants may cause water pollution.- Justify.



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13. How does the DO level depend on the organic pollutants present in the water?



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14. How does the decrease in DO level in water affect the Environment?



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15. State the comparison between ordinary smog and photochemical smog



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16. What do you mean by stone cancer?



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17. Explain the formation of photochemical smog by mechanism



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18. State some harmful effects of photochemical smog.



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19. What do you mean by biomagnification?



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Practice Set 14 Choose The Correct Alternative

1. Which of the following metallic air pollutants is present in the gas emitted by motor vehicles-

A. iron

B. lead

C. copper

D. mercury

Answer: B



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2. Top most layer of atmosphere is

A. stratosphere

B. troposphere

C. exosphere

D. ionosphere

Answer: C



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3. Which of the following causes depletion in ozone layer indirectly-

A. SO_2

B. CFC

C. H_2O

D. NO

Answer: A



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4. Minimum permissible level of sound pollution is-

A. 75db

B. 65 db

C. 55 db

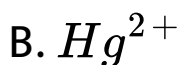
D. 50 db

Answer: A



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5. Metal ion responsible for Minamata disease is-



D. Zn^{2+}

Answer: B



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6. Which of the given pollutants does not affect the lungs?

A. CO

B. SO_2

C. CO_2

D. NO_2

Answer: C



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7. Incomplete combustion of gasoline produces-

A. CO_2

B. CO

C. SO_2

D. NO_2

Answer: B



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8. Value of pH in drinking water-

A. between 5.3 to 6.5

B. > 5.5

C. between 5.5 to 9.5

D. > 9.5

Answer: C



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Practice Set 14 Answer The Following Questions

1. What is hypothermia?



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2. What were the components of Los Angeles smog? What was its nature ?



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3. What are the adverse effect of the ozone hole in the human beings?



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4. Name three primary and three secondary air pollutants.



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5. What do you mean by homosphere and heterosphere?



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6. CO is more harmful than CO_2 -explain.



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