



CHEMISTRY

BOOKS - VIKRAM PUBLICATION (ANDHRA PUBLICATION)

ENVIRONMENTAL CHEMISTRY

Important Question

1. What is Chemical Oxygen Demand (COD) ?



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2. What is Biochemical Oxygen Demand (BOD) ?



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3. List out four gaseous pollutants present in the polluted air.



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4. Green house effect is caused by.....and.....gases.



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5. Which oxides cause acid rain ? And what is its pH value?



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6. Name two adverse effects caused by acid rains.



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7. What is classical smog ? And what is its chemical character (Oxidising, reducing) ?



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8. Name the common components of photochemical smog.



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9. What is PAN ? What effect is caused by it ?



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10. How is ozone formed in the Stratosphere ?



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11. What is Ozone hole ? Where was it first observed ?



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12. Given the possible BOD values of clean water and the polluted water.



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13. What are different segments of the earth's environment ?



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14. Define the terms Sink, COD, BOD, TLV and receptor.



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15. What is greenhouse effect ? And how is it caused ?



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16. How is Photochemical Smog formed ? What are its ill effects ?



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17. How is Ozone layer depleted in the atmosphere and what are the harmful effects caused by Ozone layer depletion ?



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18. Explain in detail the strategies adopted in Green Chemistry to avoid environmental pollution.



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19. Explain the following in detail.

Global Warming.



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20. Green Chemistry is to avoid environmental pollution. Explain.



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Very Short Answer Question

1. Define the terms Atmosphere, Biosphere.



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2. Explain the terms Lithosphere, Hydrosphere.



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3. Define the term Soil Pollution.



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4. What is Chemical Oxygen Demand (COD) ?



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5. What is Biochemical Oxygen Demand (BOD) ?



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6. What are Troposphere and Stratosphere ?



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7. Name the major particulate pollutants present in Troposphere.



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8. List out four gaseous pollutants present in the polluted air.



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9. Green house effect is caused by.....and.....gases.



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10. Which oxides cause acid rain ? And what is its pH value?



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11. Name two adverse effects caused by acid rains.



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12. What are smoke and mist ?



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13. What is classical smog ? And what is its chemical character (Oxidising, reducing) ?



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14. Name the common components of photochemical smog.



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15. What is PAN ? What effect is caused by it ?



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16. How is ozone formed in the Stratosphere ?



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17. Give the chemical equations involved in the ozone depletion by CF_2Cl_2 .



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18. What is Ozone hole ? Where was it first observed ?



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19. What is the value of dissolved oxygen in pure cooled, water ?



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20. Given the possible BOD values of clean water and the polluted water.



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21. Name three industrial chemicals that pollute water.



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22. What agrochemicals are responsible for water pollution ?



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Short Answer Questions

1. What are different segments of the earth's environment ?



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2. Define the terms Sink, COD, BOD, TLV and receptor.



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3. Name the gaseous pollutants present in the air and explain their formation.



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4. What is greenhouse effect ? And how is it caused ?



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5. Explain, with Chemical equations involved, the formation of acid rain.



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6. Explain in detail the adverse effects caused by the acid rain.



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7. How is Photochemical Smog formed ? What are its ill effects ?



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8. How is Ozone layer depleted in the atmosphere and what are the harmful effects caused by Ozone layer depletion ?



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9. List out the industrial waste that causes water pollution and what are the international standards fixed for drinking water ?



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10. Explain in detail the strategies adopted in Green Chemistry to avoid environmental pollution.



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Long Answer Questions

1. What is environmental pollution? How many types of pollution are encountered?



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2. Explain the following in detail.

Global Warming.



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3. Explain the following in detail.

Ozone depletion.



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4. Explain the following in detail.

Acid Rain.



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5. Explain the following in detail.

Eutrophication.



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6. Green Chemistry is to avoid environmental pollution. Explain.



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