



CHEMISTRY

BOOKS - OMEGA PUBLICATION

ENVIRONMENTAL CHEMISTRY

Question

1. Define environment chemistry.



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2. What is environmental pollution ?



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3. What is pollutant ?



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4. What are primary and secondary pollutants of the air ?



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5. What is the difference between pollutant and contaminant?



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6. What do you mean by air pollution ?



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7. Write a short note on air pollution.



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8. Which of the following represents the poisonous gas which caused tragedy in Bhopal in 1984 ?



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9. What are the major green-house gases?



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10. What is the role of CO_2 in the "Greenhouse effect" ?



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11. Carbon monoxide (CO) gas is more dangerous than carbon dioxide (CO_2) Why?



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12. What is acid rain? What are its effects on plants ?



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13. What is the cause of acid rain ?



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14. What are the main constituents of acid rain ?



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15. What are the pollutants attacking Taj Mahal ? How are they being produced in the atmosphere ?



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16. Statues and Monuments in India are affected by acid rain. How?



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17. Why is acid rain considered as a threat to Taj Mahal ?



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18. Why does rain water normally have a pH of about 5.6 ? When does it become acid rain ?



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19. What are particulates ?



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20. What are viable and non-viable particulates ?



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21. What is a smog ?



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22. What is PAN?



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23. Discuss various types of smog.



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24. Distinguish between classical and photochemical smogs.



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25. What is pneumoconiosis? How does it occur?



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26. What are the effects of photochemical smog? How can it be controlled ?



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27. Name one compound causing damage to ozone layer.



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28. Explain briefly the cause of ozone layer depletion.



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29. Which disease is caused due to hole in the ozone layer and why?



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30. Write the harmful effects of ozone depletion.



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31. What is meant by polar vortex ?



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32. The depletion of ozone layer occurs over Antarctica during spring time and it gets replenished after spring time. Explain.



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33. Name organisms that perform the function of nitrogen fixation.



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34. Explain tropospheric pollution.



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35. What is water pollution ?



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36. What are the causes of water pollution ?



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37. What is eutrophication? Differentiate between natural and accelerated eutrophication.



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38. What is BOD ?



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39. What is chemical oxygen demand (COD) ?



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40. Fishes do not grow as well in warm water as in cold water. Why?



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41. 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 phytoplanktons. Suggest a reason for the fish kill.



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42. What is soil pollution?



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43. What are pesticides ? Classify, them.



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44. What is chlorosis?



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45. What is a good fuel?



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46. What is humification?



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47. How can domestic waste be used as manure?



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48. Define incineration.



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49. Define green chemistry.



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50. What are the basic aims of green chemistry ?



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Multiple Choice Question Mcqs

1. The most abundant hydrocarbon pollutants is

A. ethane

B. methane

C. propane

D. butane

Answer: B



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2. Which of the following does not contribute towards the formation of photochemical smog?

A. NO

B. SO_2

C. O_3

D. Hydrocarbons

Answer: B



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3. Which of the following is the biggest particulate matter?

A. Soot

B. H_2SO_4

C. Fly ash

D. HNO_3 droplets

Answer: C



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4. London smog is found in

A. summer during day time

B. summer during morning time

C. winter during morning time

D. winter during day time

Answer: C



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5. Which of the following statement is true ?

A. SO_3 is more harmful air pollutant than

SO_2

B. SO_2 does not affect larynx (voice box)

C. NO is more toxic to living tissues than



D. NO_x does not play any role in photochemical smog.

Answer: A



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6. Which of the following is a sink for CO ?

A. Haemoglobin

B. Microorganisms present in the soil

C. Oceans

D. Plants

Answer: B



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7. Which of the following is a secondary pollutant?

A. NO

B. CO

C. SO_2

D. Phenols

Answer: D



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8. The greatest affinity for haemoglobin is shown by

A. NO

B. CO

C. O_2

D. CO_2

Answer: A



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9. Ozone layer is present in

A. troposphere

B. stratosphere

C. mesosphere

D. exosphere

Answer: B



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10. Depletion of ozone layer over Antarctica takes place during

- A. Spring (in the months of September and October)
- B. November, i.e., after Spring
- C. Winter
- D. Summer

Answer: A



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11. Which of the following is not a herbicide ?

A. Sodium chlorate

B. Sodium arsenite

C. Polyphosphate

D. Triazines

Answer: C



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12. Poisonous gas present in the exhaust fumes of car is

A. CH_4

B. C_2H_2

C. CO

D. CO_2

Answer: C



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13. Which one of the following is mainly responsible for depletion of ozone layer ?

A. methane

B. carbon dioxide

C. water

D. chlorofluoro carbons

Answer: D



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14. Ozone is formed in upper atmosphere from oxygen by the action of

A. U.V. light

B. cosmic rays

C. free radicals

D. nitrogen oxides

Answer: A



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15. The green house effect is caused by

A. NO_2

B. NO

C. CO

D. CO_2

Answer: D



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16. DDT is

A. a fertilizer

B. biodegradable pollutant

C. non-biodegradable pollutants

D. greenhouse gas

Answer: C



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17. The point of temperature inversion between troposphere and ionosphere is called

A. stratopause

B. exosphere

C. tropopause

D. stratosphere

Answer: D



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18. Solid component of the earth consisting of soil, rocks and mountains is called

A. hydrosphere

B. lithosphere

C. atmosphere

D. biosphere

Answer: B



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19. Which of the following has largest concentration in acid rain?

A. HNO_3

B. HCl

C. H_2SO_4

D. H_2CO_3

Answer: C



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

A. CO_2

B. Water vapour

C. CH_4

D. O_2

Answer: D



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21. Ultra-violet radiation from sunlight causes a reaction that produces

A. carbon monoxide

B. sulphur dioxide

C. fluorides

D. ozone

Answer: D



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22. White lung cancer is caused by :

A. asbestos

B. silica

C. paper

D. textiles

Answer: D



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23. Hydrogen and helium are found in which of the following regions ?

A. Mesosphere

B. Exosphere

C. Troposphere

D. Stratosphere

Answer: B



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