



CHEMISTRY

BOOKS - ICSE

ATMOSPHERIC POLLUTION

Exercise 8 A

1. Define the following terms:

pollution



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2. Define the following terms:

pollutant



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3. Define the following terms:

air pollution.



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4. Name any four gaseous pollutants.



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5. Name the compounds of sulphur that cause air pollution. Also state their harmful effects.



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6. State :

natural sources of air pollution



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7. State :

man-made sources of air pollution



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8. How do oxides of nitrogen enter the atmosphere ?



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9. What are harmful effects of oxides of nitrogen ?



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10. State the origin and health impact of smog.



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11. What are the harmful effects of oxides of sulphur'?





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12. State the main sources and effects of carbon monoxide



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13. Give the mechanism of the action of carbon monoxide.



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14. How can we control carbon monoxide poisoning?



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Exercise 8 B

1. Why does rain water have pH less than 7 ?



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2. pH of acid rain is sometimes as low as 2.

Explain.



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3. Explain the formation of acid rain due to :

oxides of sulphur



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4. Explain the formation of acid rain due to :
oxides of nitrogen



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5. What are the causes of acid rain ?



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6. Give the impact of acid rain :
on plants



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7. Give the impact of acid rain :

on soil



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8. Give the impact of acid rain :

on water bodies.



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9. How does a scrubber help in reducing the formation of acid rain ?



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Exercise 8 C

1. What do you understand by Green House effect?



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2. What are green house gases. How are they responsible for global warming ?



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3. State the sources and effects of the following gases:

Carbon dioxide



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4. State the sources and effects of the following gases:

Methane



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5. State the sources and effects of the following gases:

Water vapour



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6. State the ways of reducing the presence of green house gases.



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7. State the effect of green house gases on the temperature of earth's atmosphere.



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8. State the role of a green house in growing plants.



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9. Our atmosphere acts as a green house. Explain.



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10. How can we reduce global warming ?



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Exercise 8 D

1. Study the picture given below and answer the following questions :



(i) Identify the type of pollution.

(ii) Name one pollutant that causes the above pollution.

(iii) Mention the impact of this pollution on human health.

(iv) State one measure to control this pollution.

(v) What is a 'Pollutant' ? Explain the term.



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2. What is the effect of the following pollutants on living beings:

Fluorides



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3. What is the effect of the following pollutants on living beings (one in each case)

Smoke particles



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4. What is the effect of the following pollutants on living beings (one in each case)

Lead



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5. What is the effect of the following pollutants on living beings (one in each case)

Mercury compounds



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6. What is the effect of the following pollutants on living beings (one in each case)

Smog



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7. What is the effect of the following pollutants on living beings (one in each case)

Nitrogen oxide



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8. What is air pollution? How does this pollution take place?



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9. What are the components of clean, dry air?



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10. Name some particulate pollutants.



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11. Why is cigarette-smoking harmful ?



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12. What is smog ? State its damaging effects.



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13. What do you understand by ppm ?



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14. Describe the major air pollutants. How does carbon monoxide pollute our environment?



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15. How do you propose to control SO_x emission?



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16. How do you propose to control

SO_x emission?



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17. Give the composition, causes and affects of acid rain



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18. Explain the effect of sulphur dioxide on the atmosphere



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19. Explain the formation of ozone in the atmosphere.



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20. What is the function of ozone in the atmosphere?



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21. Name the following

Chemicals responsible for ozone layer destruction



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22. Name any two:

natural sources of atmospheric pollution.



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23. Name any two:

gases which are responsible for the formation of acid rain.



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24. Explain the term "global warming'. State two ways by which global warming can be reduced.



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25. State two effects of ozone depletion.



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26. What is the cause of acid rain? Give any two impacts of acid rain.



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27. Explain the methods of preventing acid rain.



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28. State an advantage of CNG (Compressed Natural Gas).



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29. State how CFC break ozone layer.



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30. Describe the methods of saving ozone layer.



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31. Fill in the blanks :

The pollutants such as NO_2 , SO_2 , SO_3 dissolved in the moisture of air are the cause of.....



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32. Fill in the blanks :

Excessive release of carbon dioxide in the

atmosphere is the cause of..... Effect which produces global warming.



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33. Fill in the blanks :

Ozone layer prevents the harmful.....
radiation of the sun to reach the earth.



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34. Fill in the blanks :

Decrease of the concentration of ozone in the stratosphere is the cause of formation of..... holes.



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35. Fill in the blanks :

Ozone depletion is mainly caused by the active..... atoms generated from CFC in the presence of UV radiation.





36. Select the correct answer :

Excessive release of carbon dioxide in the atmosphere is the cause of

- A. Depletion of ozone
- B. formation of polar vartex
- C. global warming
- D. formation of smog

Answer:



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37. Select the correct answer :

Inhalation of air polluted with carbon monoxide is dangerous because :

A. a

B. CO combines with haemoglobin of blood.

C. CO removes water from the body and causes dehydration.

D. CO causes coagulation of proteins in the
body

Answer:



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38. Select the correct answer :

Decrease of amount of ozone in stratosphere
is called depletion of ozone and it is caused by

A. UV radiations of sun

B. excessive use of detergents

C. burning coal and wood,

D. use of CFC compound

Answer:



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