

India's Number 1 Education App

CHEMISTRY

BOOKS - FULL MARKS CHEMISTRY (TAMIL ENGLISH)

ENVIRONMENTAL CHEMISTRY

Textual Evaluation Solved Multiple Choice Questions **1.** The gaseous envelope around the earth is known as atmosphere. The region lying between an altitude of 11-50 km is

A. Treposhere

B. Mesophere

C. Thermosphere

D. Stratosphere

Answer:

2. Which of the following is natural and human

distrubance in ecology ?

A. Forest fire

B. Floods

C. Acid rain

D. Greenhouse effect

Answer:

3. Bhopal Gas Tragedy is case of

A. thermal pollution

B. air pollution

C. neclear pollution

D. land pollution

Answer:



4. Haemoglobin of the blood forms carboxyhaemoglobin with

A. Carbon dioxide

B. Carbon tetrachloride

C. Carbon monoxide

D. Carbonic acid

Answer:

5. Which sequence for greenhouse gases is based on GWP? A. $CFC > N_2O > CO_2 > CH_4$ B. $CFC > CO_2 > N_2O > CH_4$ $\mathsf{C}.\,CFC > N_2O > CH_4 > CO_2$ D. $CFC > CH_4 > N_2O > CO_2$

Answer:

6. Photo chemical smog formed in congested metropolitan cities mainly consists of

A. Ozone, SO_2 and hydrocarbons

B. Ozone, PAN and NO_2

C. PAN , smoke and SO_2

D. Hydrocarbons, SO_2 and CO_2

Answer:

7. Ozone depletion will cause......

A. forest fires

B. eutrophication

C. bio magnification

D. global warming

Answer:



8. Identify the wrong statement in the following

A. The clean water would have a BOD value

of more than 5 ppm

B. Greenhouse effect is also called as

Global warming

C. Minute solid particles in air is known as

particulate pollutants

D. Biosphere is the protective blanket of

gases surrounding the earth

Answer:



9. Living in the atmosphere of CO is dangerous

because it.....

A. Combines with O_2 present inside to

form CO_2

B. Reduces organic matter of tissues
C. Combines with haemoglobin and makes
it incapable to absorb oxygen
D. Combines with haemoglobin and makes
it incapable to absorb oxygen

Answer:

10. Release of oxides of nitrogen and hydrocarbons into the atmosphere by motor vehicles is prevented by using......

A. grit chamber

B. serubbers

C. trickling filters

D. catalytic convertors

Answer:

11. Biochemical oxygen Demand value less than

5 ppm indicates a water sample to be

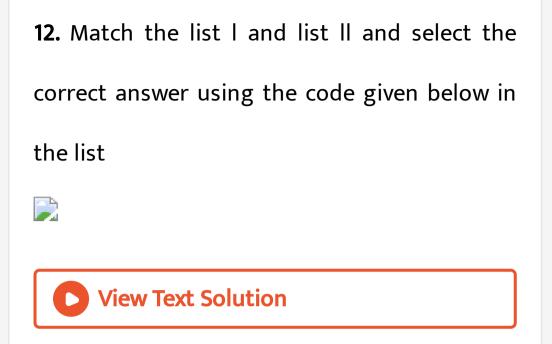
A. highly polluted

B. Poor in dissolved oxygen

C. rich in dissolved oxygen

D. low COD

Answer:



13. Match the list I and list II and select the

correct answer using the code given below in

the list: List



14. Assertion (A): If BOD level of water in a reservoir is more than 5 ppm it is highly polluted.

Reason(R): High biologiçal oxygen demand means high activity of bacteria in water

A. Both (A) and R are correct and (R) is the

correct explanation of (A)

B. Both (A) and R are correct and (R) is not

the correct explanation of (A)

C. Both (A) and R are not correct

D. (A) is correct but(R) is not correct

Answer:



15. Assertion (A): Excessive use of chlorinated

pesticide causes soil and water pollution.

Reason (R): Such pesticides are nonbiodegradable A. Both (A) and R are correct and (R) is the

correct explanation of (A)

B. Both (A) and R are correct and (R) is not

the correct explanation of (A)

C. Both (A) and R are not correct

D. (A) is correct but(R) is not correct

Answer:

16. Assertion (A): Oxygen plays a key role in the troposphere.

Reason (R): Troposphere is not responsible for

all biological activities

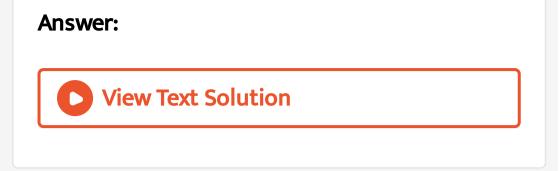
A. Both (A) and R are correct and (R) is the

correct explanation of (A)

B. Both (A) and R are correct and (R) is not

the correct explanation of (A)

- C. Both (A) and R are not correct
- D. (A) is correct but(R) is not correct





1. Dissolved oxygen in water is responsible for aquatic life. What processes are responsible for the reduction in dissolved oxygen in water?



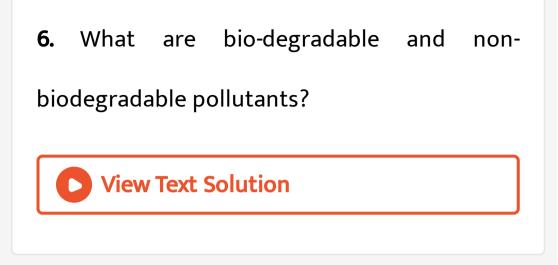
2. What would happen, if the greenhouse gases were totally missing in the earth's atmosphere?

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3. Define smog.



4. Which is considered to be earth's protective umbrella' Why? **View Text Solution** 5. What are bio-degradable and nonbiodegradable pollutants? View Text Solution



7. Fronm where does ozone come in the

photochemical smog?



8. A person was using water supplied by corporation. Due to shortage of water he started using underground water. He felt laxative effect. What could be the cause?

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9. What is green chemistry?

10. Mention the standards prescibed by BIS for

quality of drinking water.

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11. How does classical smog differ from photochemical smog ?
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12. What are particulate pollutants? Explain

any three

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13. Even though the use of pesticides increases the crop production, they adversely affect the living organisms. Explain the function and the adverse effects of the pesticides.

14. Ethane burns completely in air to give CO_2 while in a limited supply of air gives CO. The same gases are found in automobile exhaust. Both CO and CO_2 are atmospheric pollutants (i) What is the danger associated with these gases?

(ii) How do the pollutants affect the human body?



15. On the basis of chemical reactions involved,

explain how do CFC's cause depletion of ozone

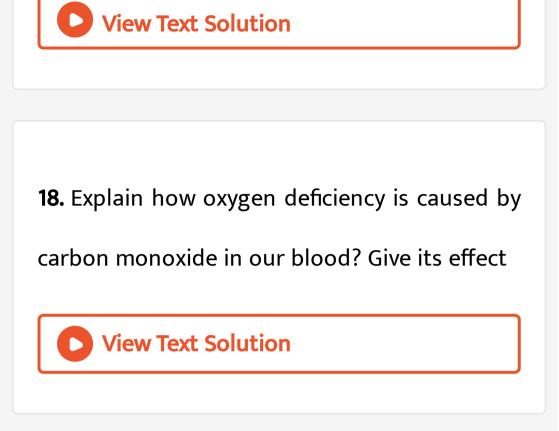
layer in stratosphere ?



16. How is acid rain formed? Explain its effect.



17. Differentiate the following:



19. What are the various methods you suggest

to protect our environment from pollution?

- 1. Which one of the following is not present in
- trposphere ?
 - A. N_2O_2
 - $\mathsf{B.}\,CO_2$
 - $\mathsf{C}.\,N_2$
 - D. Water vapours

Answer:





2. Which of the following pair of oxides is responsible for acid rain?

A. $SO_3 + NO_2$

 $\mathsf{B.}\,CO_2+CO$

 $\mathsf{C}.\,N_2+CH_4$

 $\mathsf{D}.\,O_2+H_2$

Answer:

3. Which one of the following is produced as a result of incomplete combustion of coal?

А. *CO*₂ В. *CO*

- $\mathsf{C}.\,SO_2$
- D. SO_3

Answer:

4. hotochemical smog occurs in warm, dry and sunny climate. One of the following is not amongst the components of photochemical smog. Identify it.

A. NO_2

 $\mathsf{B}.O_3$

 $\mathsf{C}.SO_2$

D. Unsatural hydrocarbons

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Answer:



1. Match the following

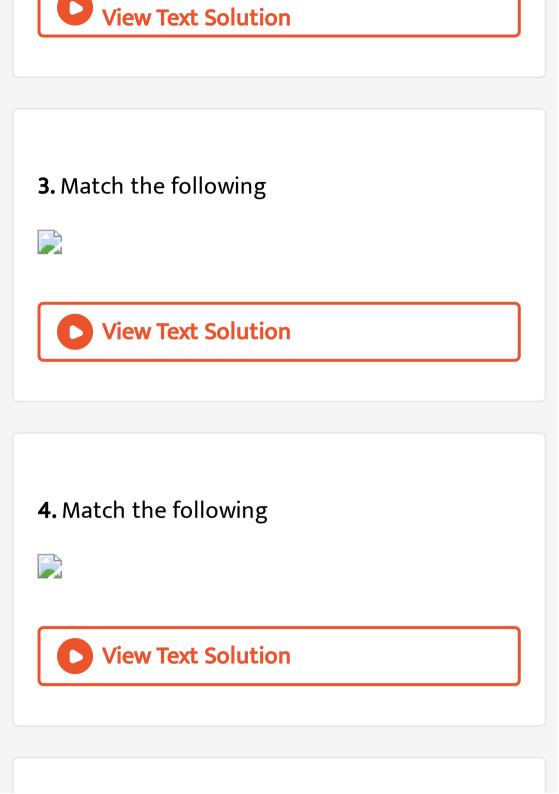


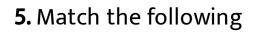
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2. Match the following











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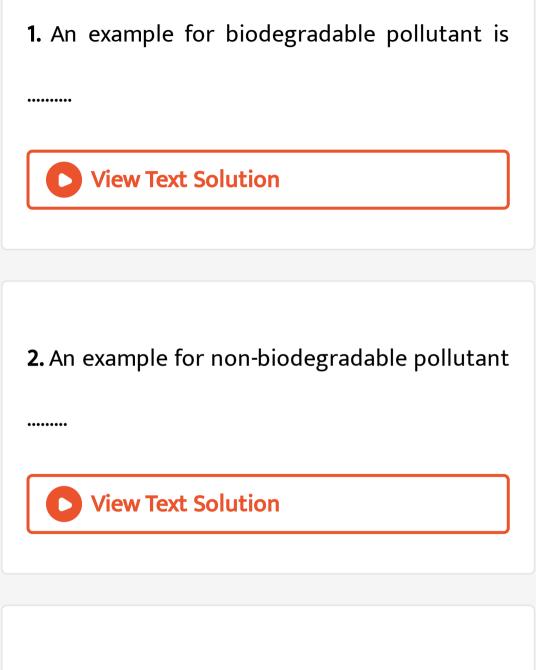
6. Match the following



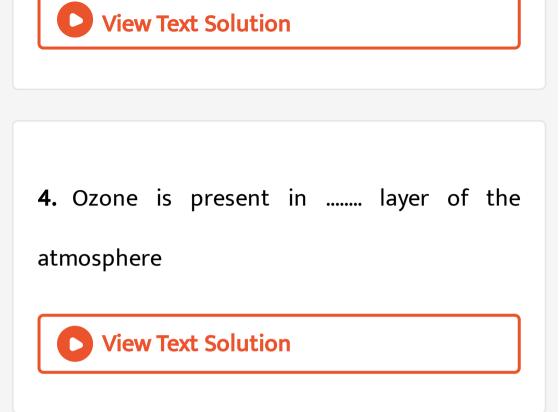




Additional Questions Solved Fill In The Blanks



3. is the lowest layer of atmosphere.



5. About 80% of the mass of the atmosphere is

present in

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photosynthesis.



7. gas potentially damage plant leaves

and retard photosynthesis.

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8. The earth's surface get heated up by a

phenomenon called.....

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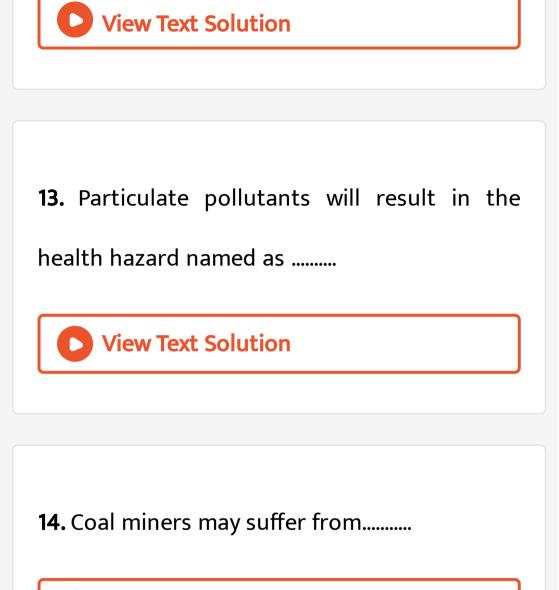
9. The main constituent of layer responsible

for global warming is



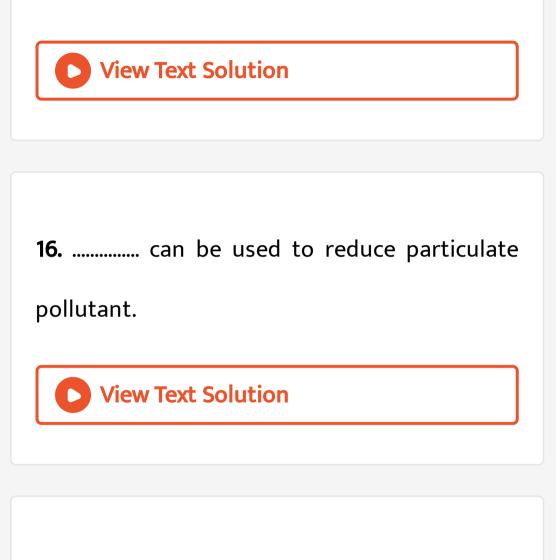
10.pair of compounds is present in acidrain water. **View Text Solution 11.** is an example of viable particulate **View Text Solution**

12.is an example of non-viable particulate matter.



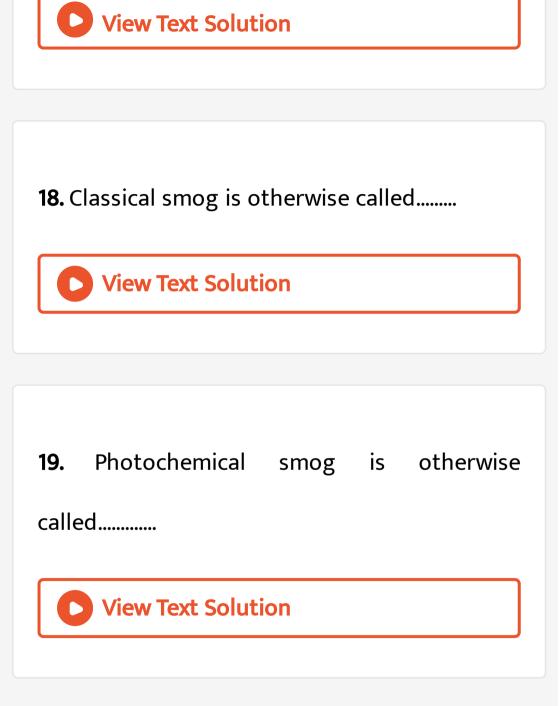


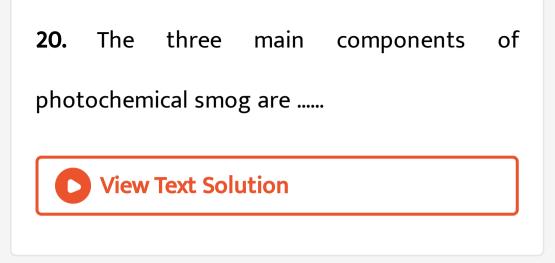
15. Textile workers may suffer from......



17. Classical smog called London smog

contains.....





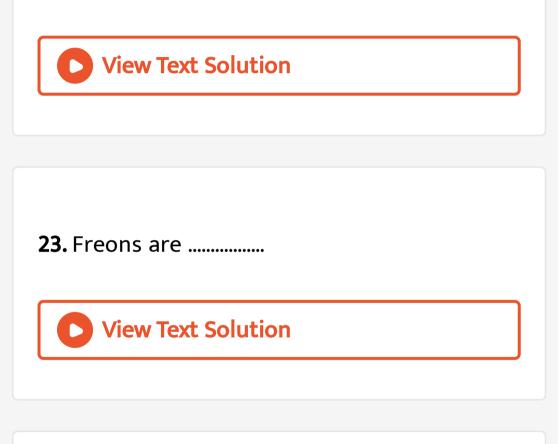
21. plantation can metabolise nitrogen

oxide and control photochemical smog.



22.pair of compounds is found to be

highly responsible for depletion of ozone layer



24. Ozone layer is depleted by the reactive......

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25. Examples for water borne diseases

are.....



26. The standard pH of drinking water

is.....



27. The alternate solvent used instead of tetrachloroethylene in dry cleaning is......*
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28. is used for bleaching clothes in laundry.

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29.is used to bleach paper.



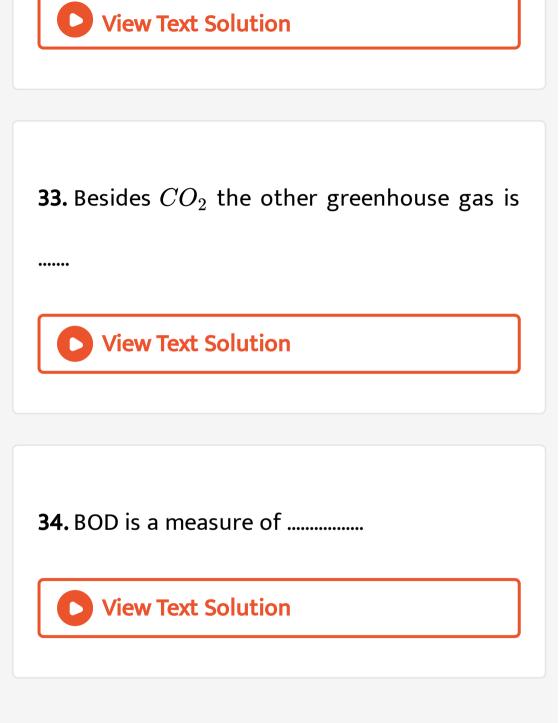
30. is the most safest pesticide.



31.acid is most abundant in acid rain



32.causes less pollution.



35. The pollutant released in Bhopal gas tragedy was.....

36. Eutrophication causes reduction in......

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Additional Questions Solved Choose The Odd One Out 1. Choose the odd one out

A. Plant waste

B. DDT

C. Plastic

D. Nuclear waster

Answer:



2. Choose the odd one out

- A. Plant waste
- B. Animal wastes
- C. Paper
- D. Nuclear waste

Answer:

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3. Choose the odd one out

A. N_2O_2

 $\mathsf{B.}\,CO_2$

 $\mathsf{C}.\,H_2O(vap)$

 $\mathsf{D}.\,O_3$

Answer:

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4. Choose the odd one out

A. O_2^+

$\mathsf{B}.O^+$

 $\mathsf{C}.\,N_2$

D. NO^+

Answer:



5. Choose the odd one out

- A. N_2
- $\mathsf{B.}\,O_2$

$\mathsf{C}.\,O_3$

D. N_2O_2

Answer:

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6. Choose the odd one out

A. CH_4

 $\mathsf{B.}\,CO$

$\mathsf{C}.\,CO_2$

$\mathsf{D.}\, CFC$



Additional Questions Solved Choose The Correct Pair

- 1. Choose the correct pari:
 - A. CCF : Green house effect
 - B. CO: Carcinogenic
 - C. PAH :Acid rain

D. NO : Lung injury

Answer:

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2. Choose the correct pari:

A. NO_2 : asthma and lung injury

B. CFC : Cacinogenic

C. PAH : green house effect

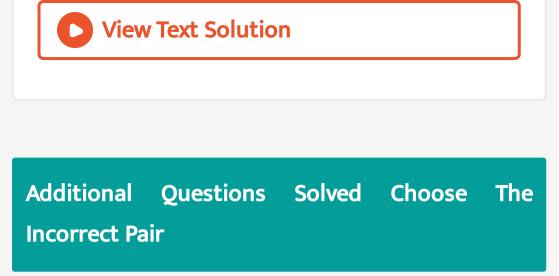
D. CO_2 : acid rain

Answer:



- **3.** Choose the correct pari:
 - A. Classical smog : NO_2 and O_3
 - B. London smog : So_2 , So_3 and humidity
 - C. Photochemical smog : CO_2 and CO
 - D. Los Angel smog : NO_2 and NO_3

Answer:



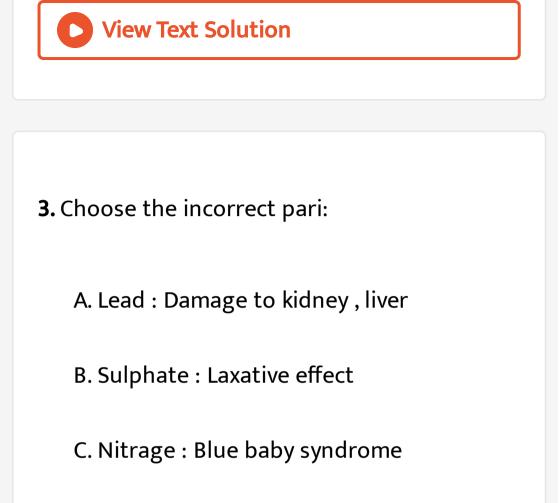
- **1.** Choose the incorrect pari:
 - A. Photochemical smog : NO_2 and O_3
 - B. Classsical smog : So_2 , So_3 and humidity
 - C. smog : smoke and fog
 - D. Non viable particulate : Algae, Fungi





- **2.** Choose the incorrect pari:
 - A. Viable particulate : bacteria , fungi
 - B. Non viable particulate : smoke, dust
 - C. Acid rain : HCl + HNO_2
 - D. Photochemical smog : $NO_2 + O_3$

Answer:



D. TDS : Damage to bone and teeth

Answer:



4. Choose the incorrect pari:

A. Insecticides : DDT , BCH

B. Herbicides : Organo mercury compounds

C. Herbicds : Sodium chlorate, sodium

arsenic

D. Industrial waste : Mercury copper

Answer:

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1. Assertion (A): Depletion of ozone layer causes skin cancer.

Reason (R): Depletion of ozone layer will allow more UV rays to reach the earth surface and cause skin cancer.

A. Both (A) and (R) are correct and (R) is the

correct explanation of (A).

B. Both (A) and (R) are correct but (R) is not

the correct explanation of (R).

C. (A) is correct but (R) is wrong.

D. (A) is wrong but (R) is correct.

Answer:



2. Assertion (A): UV radiations damages the

fish productivity

Reason (R): UV radiations affect the growth of

phytoplanktons as a result food chain in ocean

is disturbed.

A. Both (A) and (R) are correct and (R) is the

correct explanation of (A).

B. Both (A) and (R) are correct but (R) is not

the correct explanation of (R).

C. (A) is correct but (R) is wrong.

D. (A) is wrong but (R) is correct.

Answer:

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3. Assertion (A): The pH of acid rain is less than 5.6. Reason (R): CO_2 present in the atmosphere dissolves in rain water and forms carbonic acid.

A. Both (A) and (R) are correct and (R) is the

correct explanation of (A).

B. Both (A) and (R) are correct but (R) is not

the correct explanation of (R).

C. (A) is correct but (R) is wrong.

D. (A) is wrong but (R) is correct.



Additional Questions Solved Choose The Correct Statement

1. Choose the correct statement.

A. Instead of petrol, methanol is used as a

fuel in automobiles.

B. Neem based pesticides are less safer

than chlorinated hydrocarbons.

C. liquified carbon dioxide is harmful to

ground water

D. H_2O_2 can be used as fuel.

Answer:

View Text Solution

2. Choose the correct statement.

A. Most of herbicides are non-toxie to mammals. B. Insecticides like DDT,BHC aldrin contaminate root crops. C. Organo mercury compounds are used as herbicides. D. TDS of 10 ppm causes irritation in stomach and intestine

Answer:

View Text Solution

3. Choose the correct statement.

A. BOD is used as measure of degrce of

water pollution

B. Clean watcr would have BOD value more

than 5 ppm.

C. Highly polluted water has BOD value of

less than 3 ppm.

D. BOD measurements takes 2 hours.



Additional Questions Solved 2 Mark Questions

1. What is meant by environmental pollution?





atmosphere

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3. What is called troposphere? How many

layers are present in it? Give their names



4. Write about hydrosphere (or) Why Earth is

called as Blue planet?

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5. What is lithosphere ?

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6. What is biosphere?

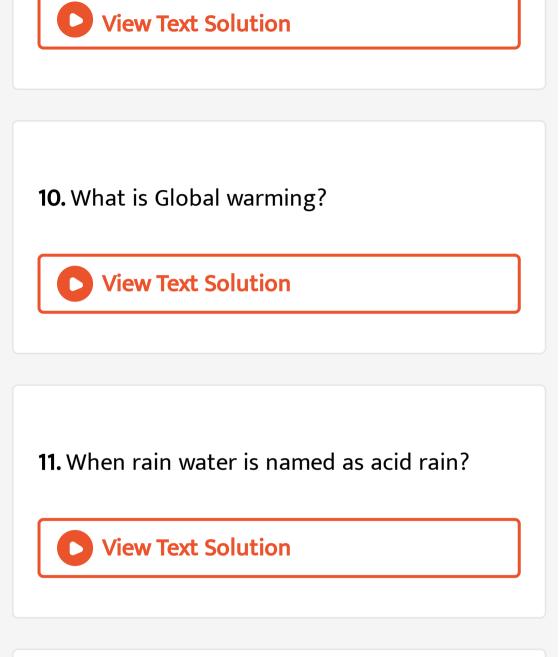
7. What is air pollution?

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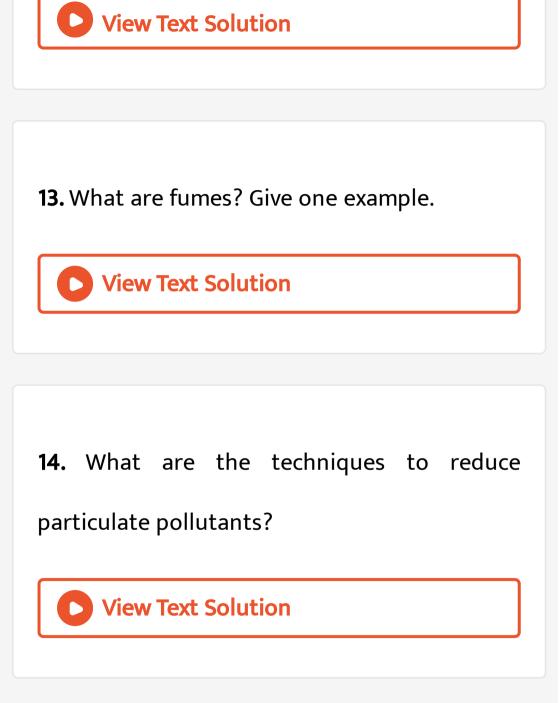
8. What are the types of air pollutants? Give examples.



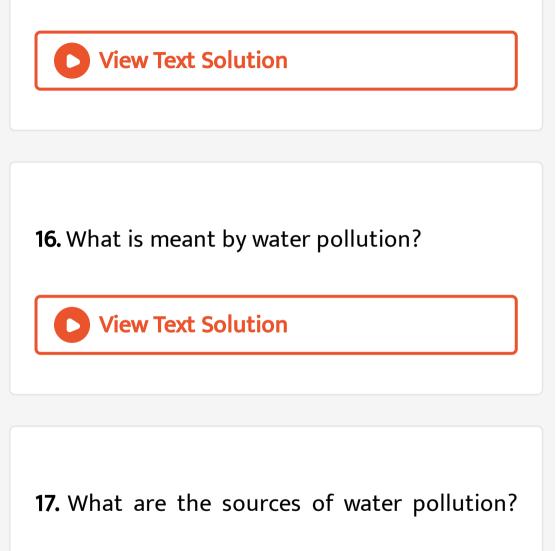
9. Define greenhouse etfect.



12. What is stone leprosy? How is it formed?



15. How will you control photochemical smog?



Give examples.

18. What is BOD?

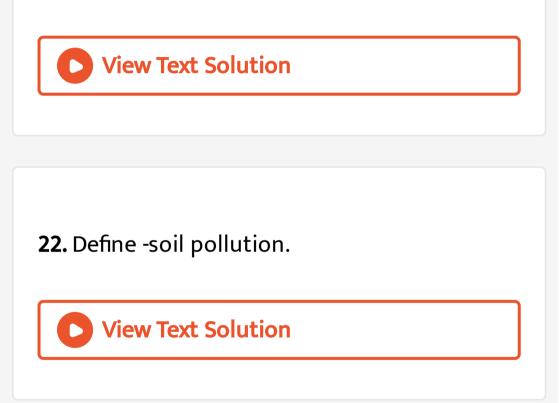
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19. What is COD?

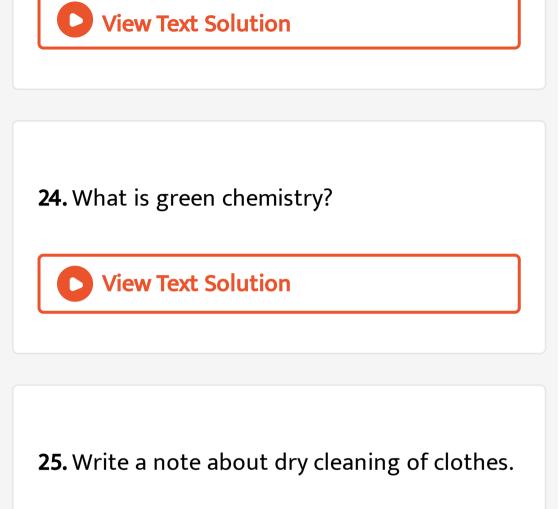
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20. What are total dissolved solids (TDS)?

21. What are the constituents of soil?



23. Explain how industrial waste affects the soil.





26. Carbon monoxide gas is more dangerous

than carbon dioxidc gas. Why?

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27. Which gases are responsible for

greenhouse effect? List some of them.



28. A large number of fishes 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 killing

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29. How carbon monoxide acts as a poison for

human beings?

30. Give three examples in which the principles

green chemistry has been applied.

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Additional Questions Solved 3 Mark Questions

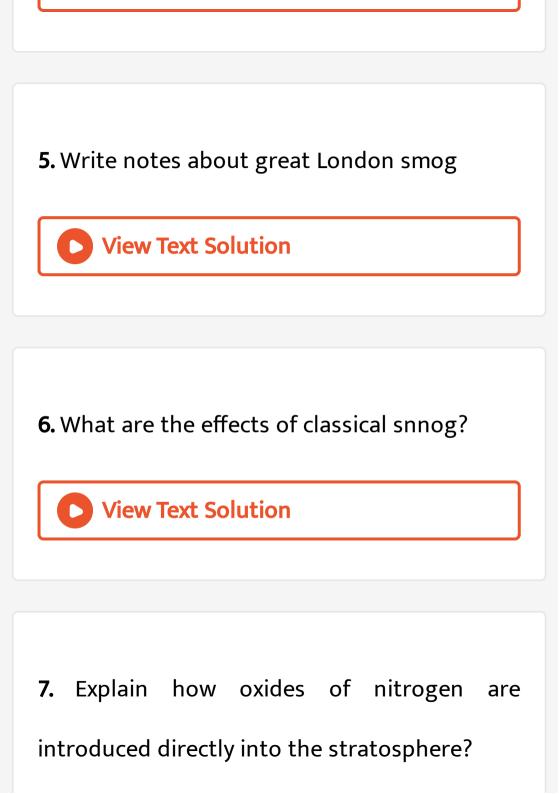
1. Write about Bhopal gas tragedy.

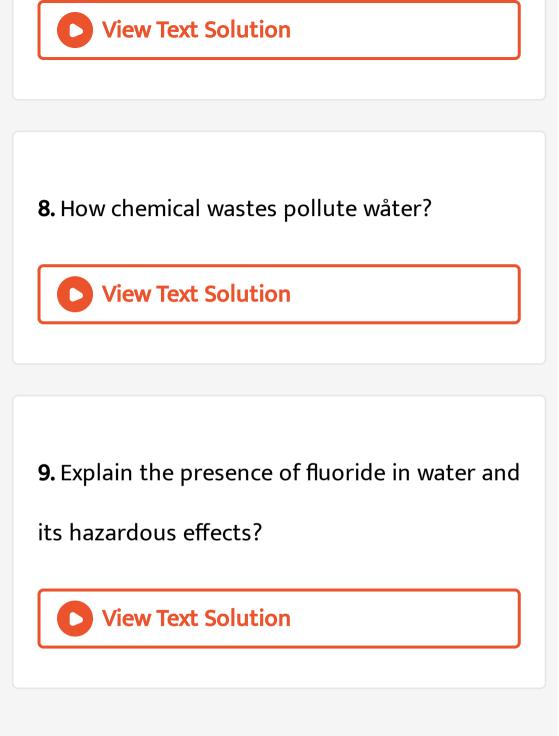
2. Explain how the oxides of sulphur pollute

the atmospheric air. Give its harmful effects.

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3. How oxides of nitrogen are harmful?
View Text Solution

atmospheric air.





10. Explain the harmful effects of (i) lead (ii)

Nitrate in drinking water

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11. Explain how styrene is produced by

traditional and greener routes?

12. How acetaldehyde is commercially prepared

by grecn chemistry?

View Text Solution

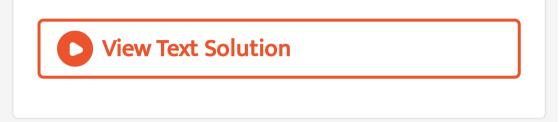
13. What do you mean by ozone hole? What

are its consequences?



14. What is photochemical smog? What are its

effects? How can it be controlled?



15. (a) Define eutrophication and pneumoconiosis.

(b) Write differences between photochemical

smog and classical smog.

1. Explain about the different layers of Earth's

atmosphere

D View Text Solution

2. What are the health effects of particulate

pollutants?

3. What are the effects of photochemical

smog?

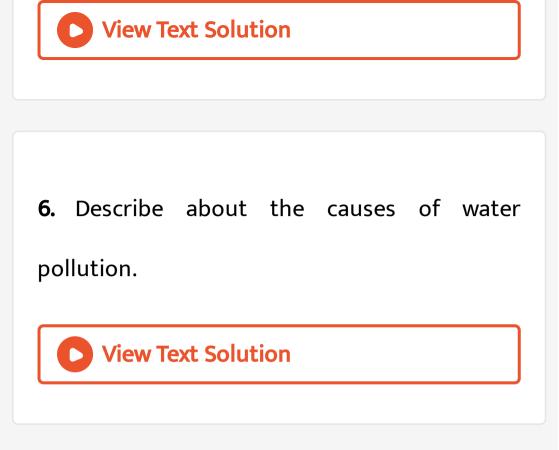


4. Explain about the environmental impacts of

ozone depletion.

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5. Explain the list of major water pollutants and their sources



7. What are the harmful effects of chemical

water pollutants?

8. Explain about green chemistry in day-to-day

life.

