



#### **CHEMISTRY**

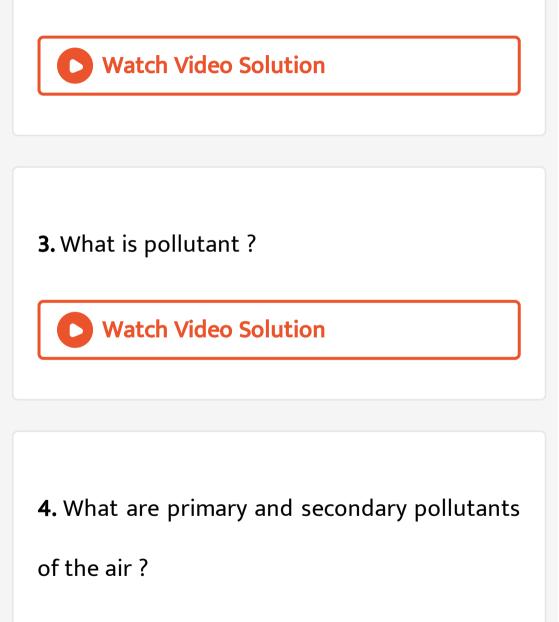
### **BOOKS - OMEGA PUBLICATION**

### **ENVIRONMENTAL CHEMISTRY**



1. Define environment chemistry.

2. What is environmental pollution ?



5. What is the difference between pollutant

and contaminant?



6. What do you mean by air pollution ?



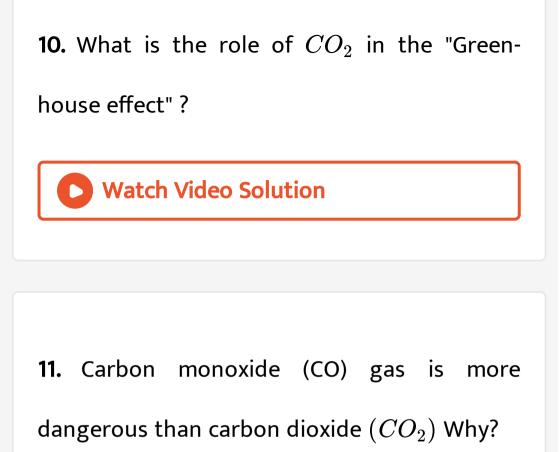
7. Write a short note on air pollution.

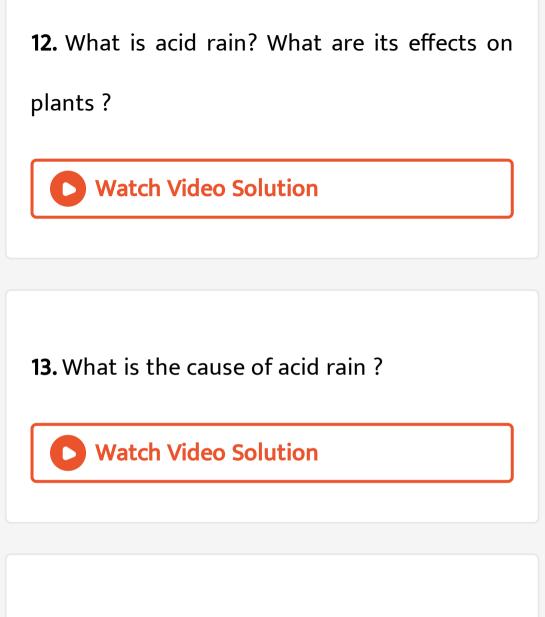


**8.** Which of the following represents the poisonous gas which caused tragedy in Bhopal in 1984 ?

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**9.** What are the major green-house gases?





14. What are the main constituents of acid rain



**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?

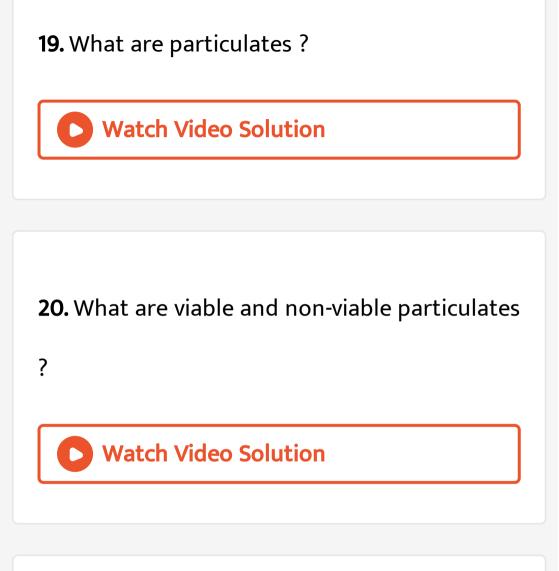
17. Why is acid rain considered as a threat to

Taj Mahal ?

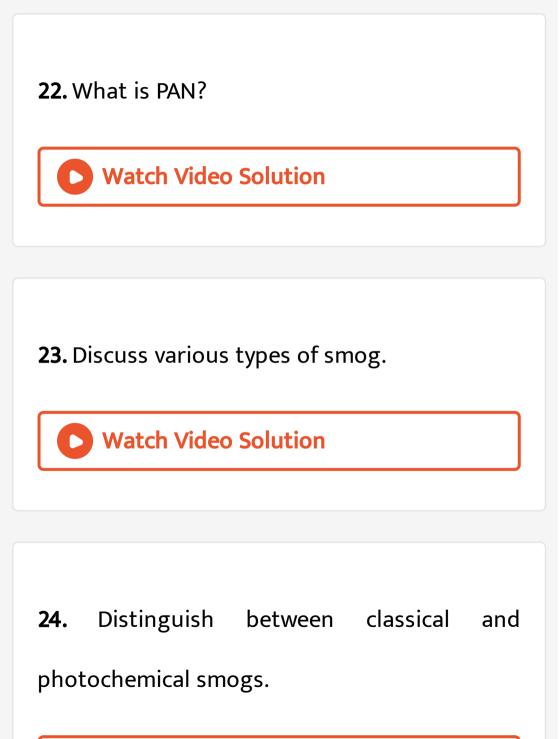
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18. Why does rain water normally have a pH of

about 5.6 ? When does it become acid rain ?



**21.** What is a smog?





### **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 ?

27. Name one compound causing damage to

ozone layer.



**28.** Explain briefly the cause of ozone layer depletion.

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

deplection.



31. What is meant by polar vortex ?



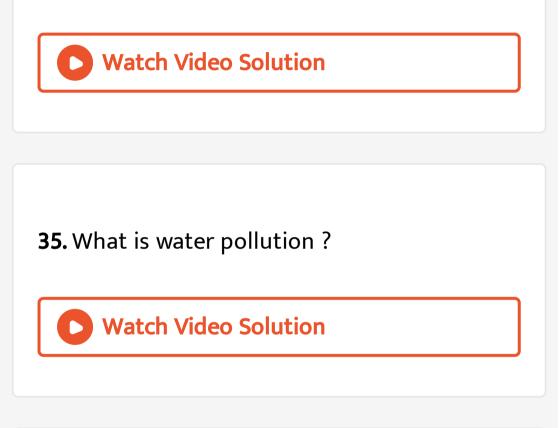
**32.** The depletion of ozone layer occurs over Antarctica during spring time and it gets replenished after spring time. Explain.



#### 33. Name organisms that perform the function

of nitrogen fixation.

**34.** Explain tropospheric pollution.



36. What are the causes of water pollution ?

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

eutrophication.

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38. What is BOD?

**39.** What is chemical oxygen demand (COD) ?



40. Fishes do not grow as well in warm water

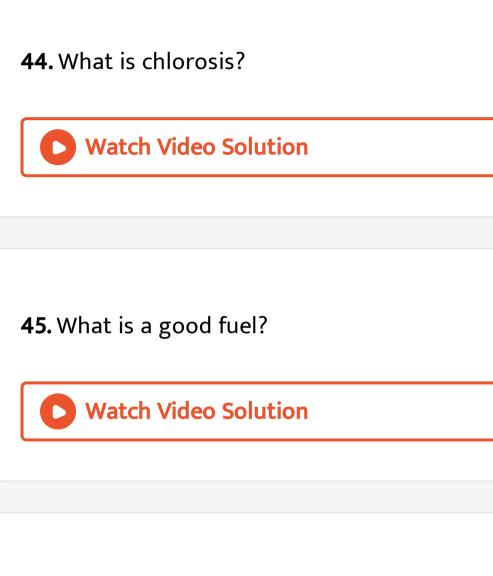
as in cold water. Why?

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**41.** A large number of fish are suddenly found floating dead on a lake. There is no evidence of

toixc dumping but you find an aboundance of phytoplanktons. Suggest a reason for the fish kill.

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42. What is soil pollution?   Watch Video Solution
<b>43.</b> What are pesticides ? Classify, them.
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46. What is humification?

#### **47.** How can domestic waste be used as

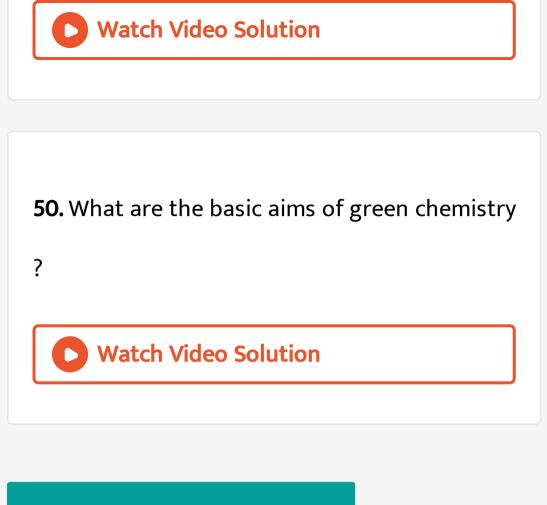
manure?



#### 48. Define incineration.



49. Define green chemistry.



Multiple Choice Question Mcqs

1. The most abundant hydrocarbon pollutants

#### A. ethane

- B. methane
- C. propane
- D. butane

Answer: B



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

A. NO

#### $\mathsf{B.}\,SO_2$

 $\mathsf{C}.O_3$ 

#### D. Hydrocarbons

#### Answer: B



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

A. Soot

#### $\mathsf{B}.\,H_2SO_4$

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

B.  $SO_2$  does not affect larynx (voice box) C. NO is more toxic to living tissues than  $NO_2$ 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

 $\mathsf{C}.\,SO_2$ 

D. Phenols

Answer: D

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**8.** The greatest affinity for haemoglobin is shown by

A. NO

#### B. CO

 $\mathsf{C}.\,O_2$ 

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



#### 12. Poisonous gas present in the exhaust

fumes of car is

#### A. $CH_4$

#### $\mathsf{B.}\, C_2 H_2$

#### $\mathsf{C}.\,CO$

#### 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



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

 $\mathsf{D.}\,CO_2$ 

#### 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



#### 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.  $HNO_3$ 

#### $\mathsf{B}.\,HCl$

#### $\mathsf{C}.\,H_2SO_4$

#### D. $H_2CO_3$

#### Answer: C



#### 20. Which of the following is not a greenhouse

gas?

A.  $CO_2$ 

B. Water vapour

 $\mathsf{C}.\,CH_4$ 

 $\mathsf{D}.\,O_2$ 

#### Answer: D



#### 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. ailica

C. paper

D. textiles

Answer: D

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23. Hydrogen and helium are found in which of

the following regions ?

A. Mesophere

B. Exosphere

C. Troposphere

D. Stratosphere

Answer: B