



CHEMISTRY

FOR IIT JEE ASPIRANTS OF CLASS 12

FOR CHEMISTRY

ENVIRONMENTAL CHEMISTRY

Illustration

1. Name the different reexampletions of the atmosphere along with their altitudes and

temperature.



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2. What do you mean by 'Inversion temperature' in different reexamples of the atmosphere ?



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3. How are NO and NO_2 formed in the atmosphere ?



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4. How are flue gases from industries freed from oxides of nitrogen and sulphur ?



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5. What is not correct about green house effect ?

A. It results in global warming.

B. CO_2 is one of the main chemical species responsible for it.

C. It results in lowering of levels of ocean over the years.

D. CH_4 , O_3 , CFC also contribute to green house effect

Answer:



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6. Which main compounds are causing damage to ozone layer ?



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7. Which acids are present in the acid rain ?



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8. Differentiate between biodegradable and non biodegradable substances with examples.



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9. What are the main sources of thermal pollution ?



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10. Name some factors which cause soil pollution.



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11. Name the different reexampletions of the atmosphere along with their altitudes and temperature.



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12. What do you mean by 'Inversion temperature' in different reexampleions of the atmosphere ?



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Solved Problems Subjective

1. Why does rain water have a pH of about 5-6 ?



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2. When does a rain is considered to be acid rain ?



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3. Explain giving reasons. 'The presence of CO reduces the amount of haemoglobin available in the blood for carrying oxygen to the body cells'.



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



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5. Fish do not grow in warm water as in cold water, why ?



View Text Solution

6. Oxygen plays a key role in the troposphere while ozone in the stratosphere . Explain.



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7. What is temperature range of the atmosphere ?



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8. What is % of CO_2 in the pure dry air ?



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9. What is anoxia or asphyxiation ?



Watch Video Solution

10. How are NO and NO_2 formed in the atmosphere.



Watch Video Solution

11. What is chlorosis ?



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12. What are reactions involved in removing SO_2 from the atmosphere by passing it through a solution containing citrate ions ?



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13. What is the size of particulate ?



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14. What type of aromatic compounds are present as particulate in the air ?



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[View Text Solution](#)

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[Watch Video Solution](#)

28. What type of aromatic compounds are present as particulate in the air ?



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Solved Problems Objective

1. Which one of the following is a source of energy but does not cause pollution ?

A. Gasoline

B. Nuclear power plants

C. Fossil fuels

D. Sun

Answer: D



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2. The acid rain does not contain

A. Sulphuric acid

B. Nitric acid

C. Sulphurous acid

D. Acetic acid

Answer: D



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3. Depletion of ozone layer causes

A. Blood cancer

B. Lung cancer

C. Skin cancer

D. Breast cancer

Answer: C



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4. Which of the following is not green house gas ?

A. CO_2

B. CH_4

C. Chloro fluoro carbons

D. O_2

Answer: D



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5. Ozone layer is present in

A. Troposphere

B. Stratosphere

C. Mesosphere

D. Exosphere

Answer: B



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6. White lung cancer' is caused by

A. Asbestos

B. Silica

C. textiles

D. Paper

Answer: C



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7. BOD is

- A. Waste decomposed in 5 days
- B. Oxygen used in 5 days
- C. Microorganisms killed in 5 days
- D. Dissolved oxygen left after 5 days

Answer: B



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8. The aromatic compounds is present as particulates are

A. Benzene

B. Toluene

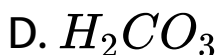
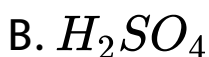
C. Nitrobenzene

D. Polycyclic hydrocarbon

Answer: D



9. Which of the following is present in maximum amount in acid rain ?



Answer: B



10. London smog is found in

- A. Summer during day time
- B. Summer during morning time
- C. Winter during morning time
- D. Summer during day time

Answer: C



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11. Which of the following is not involved in the formation of photochemical smog ?

A. NO

B. O_3

C. C_xH_y

D. SO_2

Answer: D



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12. Which of the following has greatest affinity for haemoglobin ?

A. CO

B. NO

C. O_2

D. CO_2

Answer: B



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13. Which of the following is a secondary pollutant ?

A. NO

B. CO

C. SO_2

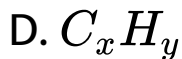
D. PAN

Answer: B



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14. Which of the following is not considered to be a pollutant ?



Answer: B



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15. The most abundant hydrocarbon pollutant is :

A. Methane

B. Ethane

C. Propane

D. Butane

Answer: A



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16. Which of the following is true about photochemical smog ?

- A. It is reducing in nature
- B. It is formed in water
- C. It is a mixture of smoke and fog
- D. It causes irritation in eyes.

Answer: D



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17. Which of the following is the coldest
region of the atmosphere?

A. Troposphere

B. Mesosphere

C. Stratosphere

D. thermosphere

Answer: B



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18. What is most harmful for life on globe ?

- A. Deforestation
- B. Soil erosion
- C. Increasing desert
- D. Nuclear fail out

Answer: D



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19. If BOD of river is high, this implies that the river is

A. Non polluted at all

B. Highly polluted with inorganic chemicals

C. Highly polluted with organic chemicals

which are decomposed by
microorganisms

D. Polluted with pesticides

Answer: C

20. Fluorosis, the base disease is caused by the presence of

A. Pesticides in water

B. Fluorosis in water

C. CO in air

D. SO_2 in air

Answer: B

21. Which one of the following is a source of energy but does not cause pollution ?

A. Gasoline

B. Nuclear power plants

C. Fossil fuels

D. Sun

Answer: D



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24. Which of the following is not green house gas ?

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B. CH_4

C. Chloro fluoro carbons

D. O_2

Answer: D



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D. Polycyclic hydrocarbon

Answer: D



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29. Which of the following is present in maximum amount in acid rain ?

A. HNO_3

B. H_2SO_4

C. HCl

D. H_2CO_3

Answer: B



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30. London smog is found in

A. Summer during day time

B. Summer during morning time

C. Winter during morning time

D. Summer during day time

Answer: C

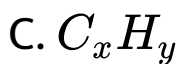


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31. Which of the following is not involved in the formation of photochemical smog ?

A. NO

B. O_3



Answer: D



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A. CO

B. NO

C. O_2

D. CO_2

Answer: B



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B. CO

C. SO_2

D. PAN

Answer: B



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34. Which of the following is not considered to be a pollutant ?

A. NO_2

B. CO_2

C. O_3

D. C_xH_y

Answer: B



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35. The most abundant hydrocarbon pollutant is :

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B. Ethane

C. Propane

D. Butane

Answer: A



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36. Which of the following is true about photochemical smog ?

A. It is reducing in nature

B. It is formed in water

C. It is a mixture of smoke and fog

D. It causes irritation in eyes.

Answer: D



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D. thermosphere

Answer: B



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38. What is most harmful for life on globe ?

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Answer: D



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B. Highly polluted with inorganic chemicals

C. Highly polluted with organic chemicals

which are decomposed by

microorganisms

D. Polluted with pesticides

Answer: C



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A. Pesticides in water

B. Fluoride in water

C. CO in air

D. SO_2 in air

Answer: B



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Exercise 1

1. Define environmental chemistry.



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2. Discuss social relevance of this branch of chemistry.



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3. Define environmental chemistry.



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4. Discuss social relevance of environmental chemistry.



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Exercise 2

1. In what regions of the atmosphere, the temperature increasing with altitudes and in which regions it decreases.



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2. In what regions of the atmosphere, the temperature increases with altitudes and in which regions it decreases.



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Exercise 3

1. Is CO_2 a pollutant in true sense ?



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2. Name the oxides of nitrogen causing pollution .



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3. Is CO_2 a pollutant in true sense ?



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4. Name the oxides of nitrogen causing pollution .



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Exercise 4

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



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



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Exercise 5

1. What are freons ?



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2. Name the chemicals responsible for acid rain ?



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3. What are freons ?



Watch Video Solution

4. Name the chemicals responsible for acid rain ?



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Exercise 6

1. What is the role of CO_2 in the 'green house effect' ?



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2. What is the role of CO_2 in the 'green house effect' ?



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Exercise 7

1. What does BOD and COD stand for ?



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2. Dissolved oxygen in water is needed only by aquatic animals and plants . Comments.



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3. What does BOD and COD stand for ?



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Exercise 8

1. Write name of soil pollutants.



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2. Write name of soil pollutants.



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Assignment Problems Subjective

1. What is the nature of photochemical smog ?



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2. Which acids are present in the acid rain ?





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3. What is the role of CO_2 in the green house effect ?



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4. What is siltation ?



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5. What are the main sources of thermal pollution ?



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6. What is the role of builder in synthetic detergents ?



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7. What is BOD ?



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8. What is COD ? Write chemical substance is generally used in measurement ?



[View Text Solution](#)

9. Why there is ozone depletion mainly ones an Antartica ?



[View Text Solution](#)

10. In which season the depletion of ozone on Antartica takes place and when it is replenished .



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11. Give three examples in which green chemistry has been applied ?



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12. What is Acid rain ? What are its harmful effects ?



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13. What is Green house effect ? How does it affect the global climate ?



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14. What are different sources of soil - pollution ? Name the pollutants being added by them ?



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15. Why is COD preferred over BOD ?



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16. Name three gases which are major air pollutants .



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17. Why CO is harmful for human beings ?



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1. Which of the following is the uppermost
region of the atmosphere ?

A. Stratosphere

B. Troposphere

C. Exosphere

D. Ionosphere

Answer: C



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2. The size of particulates of H_2SO_4 fog lies in the range.

A. 5-100 nm

B. 100-500 nm

C. 500-1000 nm

D. 1000-10,000 nm

Answer: C



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3. Photochemical smog is formed in

A. Summer during morning time

B. summer during day time

C. Winter during morning time

D. winter during day time

Answer: B



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4. Which of the following statement is false ?

- A. London smog is oxidising in nature
- B. London smog contains H_2SO_4
- C. London smog is formed in winter
- D. London smog causes bronchitis

Answer: A



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

A. CO_2

B. CH_4

C. Chloro fluoro carbons

D. O_2

Answer: D



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6. In which reexampleion /rexampleions of the atmosphere , temperature decreases with altitudes ?

A. Troposphere

B. Stratosphere

C. thermosphere

D. none of these

Answer: A



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7. The gas/es involved in the formation of photochemical fog are

A. CO_2

B. SO_2

C. NO

D. none of these

Answer: C



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8. Choose the wrong statement/s

A. CO_2 is responsible for greenhouse effect

B. CO_2 can absorb radiation but does not allow them to pass through

C. NO is less harmful than NO_2

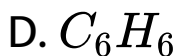
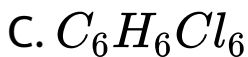
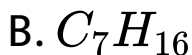
D. Acid rain contains mainly HNO_3

Answer: D



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9. Ozone in the stratosphere is deleted by



Answer: A



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10. The smog is essentially caused by the presence of

A. O_2 and O_3

B. O_2 and N_2

C. Oxides of sulphur and nitrogen

D. O_3 and N_2

Answer: C



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11. Which one of the following is responsible of depletion of ozone layer in the upper strate of the atmosphere ?

A. polyhalogens

B. Ferrocene

C. Fullerenes

D. Freons

Answer: D



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12. Pollutants of automobile exhausts that affects nervous system/produces mental diseases in

A. Mercury

B. Lead

C. Nitrogen dioxide

D. Sulphur dioxide

Answer: B



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13. Carbon monoxide is pollutant as it

- A. Inactivates nerves
- B. Inhibits glycolysis
- C. Combines with oxygen
- D. Combines with haemoglobin

Answer: D



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14. Most abundant water pollutant is

A. Detergents

B. Pesticides

C. Industrial wastes

D. Ammonia

Answer: C



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15. Most hazardous metal pollutant of automobile exhaust is

A. Mercury

B. Cadmium

C. Lead

D. Copper

Answer: C



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region of the atmosphere ?

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D. none of these

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B. SO_2

C. NO

D. none of these

Answer: C



Watch Video Solution

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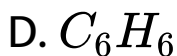
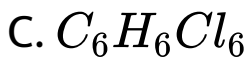
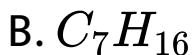
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Answer: D



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Watch Video Solution

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Watch Video Solution

28. Carbon monoxide is pollutant as it:

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- C. Combines with oxygen
- D. Combines with haemoglobin

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29. Most abundant water pollutant is

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30. Most hazardous metal pollutant of automobile exhausts is :

A. Mercury

B. Cadmium

C. Lead

D. Copper

Answer: C



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Assignment Problems Objective Level Ii Multiple Correct Questions

1. Which of the following act as secondary pollutants ?

A. CO_2

B. SO_3

C. NO_2

D. O_3

Answer: B::C::D





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2. What are the common atmospheric pollutants ?



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3. Which of the following increases the amount of CO_2 in atmosphere ?

A. Photosynthesis

B. decay of animals

C. Breathing

D. Burning of coal

Answer: B::C::D



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4. Acid rain is due to

A. formation of oxides of sulphur

B. formation of oxides of nitrogen

C. HCl

D. $HClO_4$

Answer: A::B



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5. Which of the followin acts as a pollutant ?

A. CO

B. SO_2

C. CO_2

D. O_2

Answer: A::B



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6. Ozone is not present in

A. thermosphere

B. Mesosphere

C. Stratosphere

D. O_3 layer

Answer: A::B



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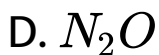
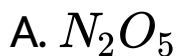
7. Which of the following acts as a green house gas ?



Answer: A::D



8. Which oxide of nitrogen act as a pollutant ?

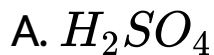


Answer: B::C::D



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9. Marble acts as a sink for



Answer: B::C::D



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10. Which of the following is a source of energy but does not cause pollution ?

A. Sun

B. water

C. gasoline

D. fossil fuel

Answer: A::B



Watch Video Solution

11. Which of the following act as secondary pollutants ?



Answer: B::C::D



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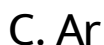
D. O_3 layer

Answer: A::B



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17. Which of the following acts as a green house gas ?

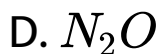
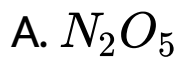


Answer: A::D



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18. Which oxide of nitrogen act as a pollutant ?



Answer: B::C::D



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19. Marble does not act as a sink for

A. H_2SO_4

B. HCl

C. HNO_3

D. O_3

Answer: B::C::D



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20. Which of the following is a source of energy but does not cause pollution ?

A. Gasoline

B. Nuclear Power Plants

C. Fossil Fuels

D. Sun

Answer: A::B



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**Assignment Problems Objective Level II Assertion
Reason Type Question**

1. Assertion: Photochemical smog is a combination of photons with smoke and fog.

Reason: Photochemical smog is formed in the stratosphere.

A. If both 'A' and 'R' are correct and 'R' is correct reason for 'A'.

B. If both 'A' and 'R' are correct and 'R' is not correct reason for 'A'.

C. If 'A' is true and 'R' is false.

D. If both 'A' and 'R' are false.

Answer: D



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2. Assertion: CO & NO both combine with haemoglobin.

Reason: Both have equal affinity for haemoglobin.

A. If both 'A' and 'R' are correct and 'R' is correct reason for 'A'.

B. If both 'A' and 'R' are correct and 'R' is not correct reason for 'A'.

C. If 'A' is true and 'R' is false.

D. If both 'A' and 'R' are false.

Answer: C



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3. Assertion: Photochemical smog is a combination of photons with smoke and fog.

Reason: Photochemical smog is formed in the stratosphere.

A. If both 'A' and 'R' are correct and 'R' is correct reason for 'A'.

B. If both 'A' and 'R' are correct and 'R' is not correct reason for 'A'.

C. If 'A' is true and 'R' is false.

D. If both 'A' and 'R' are false.

Answer: D



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4. Assertion: CO & NO both combine with haemoglobin.

Reason: Both have equal affinity for haemoglobin.

A. If both 'A' and 'R' are correct and 'R' is correct reason for 'A'.

B. If both 'A' and 'R' are correct and 'R' is not correct reason for 'A'.

C. If 'A' is true and 'R' is false.

D. If both 'A' and 'R' are false.

Answer: C



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Assignment Problems Objective Level li
Comprehension

1. In which of the following layers of atmosphere is ozone layer present

A. Stratosphere

B. lithosphere

C. troposphere

D. Exosphere

Answer: A

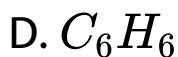
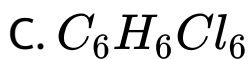


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2. Ozone in the stratosphere is deleted by

A. CF_2Cl_2

B. C_7H_{16}



Answer: A



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3. In which of the following layers of atmosphere is ozone layer present

A. Stratosphere

B. lithosphere

C. troposphere

D. Exosphere

Answer: A



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4. Ozone in stratosphere is depleted by:

A. CF_2Cl_2

B. C_7H_{16}

C. $C_6H_6Cl_6$

D. C_6H_6

Answer: A



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Matrix Type Questions

1. Match the Column -I with Column -II



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2. Match the Column -I with Column -II



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3. Match the Column -I with Column -II



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4. Match the Column -I with Column -II



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