



CHEMISTRY

BOOKS - VK JAISWAL ENGLISH

ENVIRONMENTAL CHEMISTRY

Level 1

1. The term biosphere used for the zone of earth where life exists is

A. On the lithosphere

B. In the hydrosphere

C. In the lithosphere and hydrosphere

D. In the lithosphere, hydrosphere and
atmosphere

Answer: D



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2. Biosphere is :

A. In which individual interact to each other

B. By which life originated

C. The name of a bird

D. Organic compound by which life diminishes

Answer: A



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3. Which is not a renewable source?

A. Forest

B. Coal

C. Water

D. Forest organism

Answer: B



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4. Noosphere is synonyms of :

A. Environment

B. Atmosphere

C. Hydrosphere

D. Biosphere

Answer: A



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5. All living organisms on the earth constitute :

A. Biome

B. Biosphere

C. Community

D. Biocoenosis

Answer: B



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6. Biosphere refers to

A. Plants of the world

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7. What is the correct sequence of atmosphere layers starting from earth?

A. Stratosphere, troposphere, mesosphere,
thermosphere

B. Troposphere, stratosphere, mesosphere,
thermosphere

C. Mesosphere, troposphere, stratosphere,
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D. Thermosphere, mesosphere, stratosphere,
troposphere

Answer: B



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8. All living organisms on the earth constitute :

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9. A biosphere is composed of :

A. Living organisms

B. Living organisms+lithosphere

C. Living organisms+lithosphere+atmoosphere

D. Living

organisms+lithosphere+atmosphere+hydrosphere

Answer: D



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10. Pollution can be controlled by

A. Sewage treatment

B. Chacking atomic blasts

C. Manufacturing electrically operated vehicles

D. All the above

Answer: D



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11. If water pollution continues at its present rate, it will eventually

A. Stop water cycle

B. Prevent precipitation

C. Make oxygen molecules unavailable to water plants

D. Make nitrogen molecules unavailable to water plants

Answer: C



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12. Recent reports of acid rains industrial cities are due to the effect of atmospheric pollution by

- A. Excessive release of NO_2 and SO_2 by burning of fossil fuels
- B. Excessive release of CO_2 by burning of fuel like wood and charcoal, cutting of forests and increased animal population.
- C. Excessive release of NH_3 by industrial plants and coal gas
- D. Excessive release of CO in atmosphere by incomplete combustion of cock, charcoal and other carbonaceous fuels in pancity of oxygen.

Answer: A



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- A. Desirable and harmful to human
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A. SO_2

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C. CO_2

D. N_2O

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A. PAN

B. PBN

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D. All of these

Answer: C



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20. Which of the following protects life on earth from harmful effects of UV radiations from sun?

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C. O_2

D. O_3

Answer: D



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21. The ozone layer forms naturally by:

- A. CFC with oxygen
- B. UV radiation with oxygen
- C. IR radiation with oxygen
- D. oxygen and water vapour

Answer: B



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22. Fishes die in water bodies polluted by sewage due to :

A. pathogens

B. reduction of oxygen

C. foul smell

D. none of these

Answer: B



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23. Main pollutant from automobile exhaust is :

A. CO

B. CO_2

C. *NO*

D. hydrocarbons

Answer: A



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24. Ultraviolet radiation is absorbed by

A. exosphere

B. ionosphere

C. mesosphere

D. stratosphere

Answer: D



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25. The global warming has resulted in

A. flood

B. cyclone

C. decrease in forest productivity

D. All of these

Answer: D



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26. BHC and DDT act as:

- A. carcinogens
- B. allergens
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27. Which of the following statements is wrong?

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45. Acid rain occur due to atmosphere pollution of:

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C. CO_2

D. N_2O

Answer: A



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46. An increase in CO_2 concentration in atmosphere will result in:

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Answer: C



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C. O_2

D. O_3

Answer: D

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50. The ozone layer forms naturally by the interaction of:

- A. the interaction of CFC with oxygen
- B. the interaction of UV radiation with oxygen
- C. the interaction of IR radiation with oxygen
- D. the interaction of oxygen and water vapour

Answer: B

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51. Fishes die in water bodies polluted by sewage due to :

- A. pathogens
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- C. foul smell
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52. Main pollutant from automobile exhaust is :

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B. CO_2

C. NO

D. hydrocarbons

Answer: B



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53. Ultraviolet radiation is absorbed by

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B. ionosphere

C. mesosphere

D. stratosphere

Answer: D



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D. All of these

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Answer: C



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1. Which of the following gases is not green house gas ?

A. CO

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C. CH_4

D. H_2O vapour

Answer: A



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2. Photochemical 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

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C. SO_2

D. Unsaturated hydrocarbon

Answer: C



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3. Which of the following statements is not true about classical smog ?

A. Its main components are produced by the action of sunlight on emissions of automobiles and factories

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C. It contains compounds of reducing nature

D. It contains smoke and sulphur dioxide

Answer: A



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4. Biochemical Oxygen Demand, (BOD) is a measure of organic material present in water. BOD value less than 5ppm indicates a water sample to be

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- B. poor in dissolved oxygen
- C. highly polluted
- D. not suitable for aquatic life

Answer: A



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5. Which of the following statements is wrong?

- A. Ozone is produced in upper stratosphere by the action of UV rays on oxygen
- B. Ozon can oxidize sulphur dioxide present in the atmosphere to sulphur trioxide
- C. Ozone hole is thinning of ozone layer present in stratosphere
- D. none of these

Answer: D



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6. Sewage containing organic waste should not be disposed in water bodies because it causes major water pollution. Fishes in such a polluted water die because of

A. Large number of mosquitos

B. Increase in the amount of dissolved oxygen in water

C. decrease in the amount of dissolved oxygen

D. Clogging of gills by mud

Answer: C





7. Which of the following statements about photochemical smog is wrong ?

- A. It has high concentration of oxidising agents
- B. It has low concentration of oxidising agent
- C. It can be controlled by controlling the release of NO_2 hydrocarbons, ozone etc
- D. Planation of some plants like pinus helps in controlling photochemical smog

Answer: B



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9. Dinitrogen and dioxygen are main constituents of air but these do not react with each other to form oxides of nitrogen because

A. the reaction is endothermic and requires very high temperature

B. the reaction can be initiated only in presence of a catalyst

C. oxides of nitrogen are unstable

D. N_2 and O_2 are unreactive

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around the earth completely

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12. Which of the following practices will not come under green chemistry?

A. It possible making use of soap made of vegetable oils instead of using synthetic detergents

- B. Using H_2O_2 for bleaching purpose instead of using chlorine based bleaching agents
- C. Using bicycle for travelling small distances instead of using petrol/diesel based vehicles
- D. Using plastic cans for nearly storing substances

Answer: D



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13. Which of the following acts as rocket propellants?

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B. Liq. N_2 +Liq. O_2

C. Liq. H_2 +Liq. N_2

D. Liq. O_2 +Liq. Argon

Answer: A



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14. When rain is accompanied by a thunderstorm, the collected rain water will have pH?

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15. The smog is essentially caused by the presence of:

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B. O_2 and N_2

C. Oxides of sulphur and N_2

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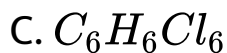


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16. Ozone in stratosphere is depleted by:

A. CF_2Cl_2

B. C_7F_{16}



Answer: A



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17. Which of the following is responsible for depletion of the ozone layer in the upper strata of the atmosphere :-

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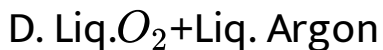
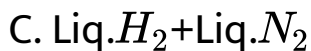
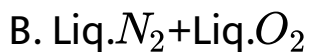
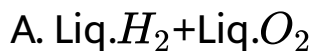
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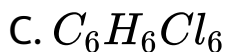
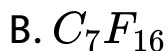
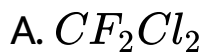
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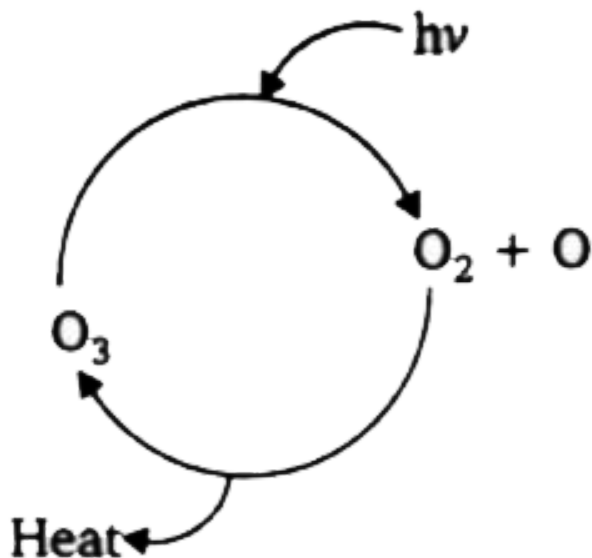


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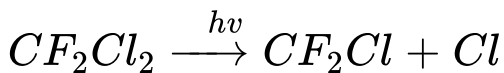
Level 3

1. When healthly earth's stratosphere contains a low concentration of ozone(O_3) that absorbs

potentially harmful ultraviolet (UV) radiations by the cycle shown below:



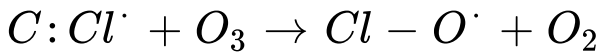
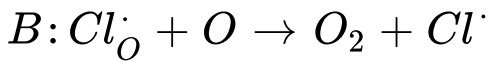
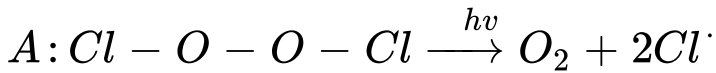
Chlorofluoro carbon refrigerants, such as freon 12 (CF_2Cl_2), are stable in lower atmosphere but in the stratosphere, they absorb high energy UV radiation to generate chlorine radicals.



The presence of small number of chlorine radicals

appears to lower ozone concentrations dramatically.

The following reactions are all known to be exothermic (except the one requiring light) and to have high rate constant.



Q. Ozone has the ability to absorb

A. UV radiations

B. electromagnetic radiations

C. CFC

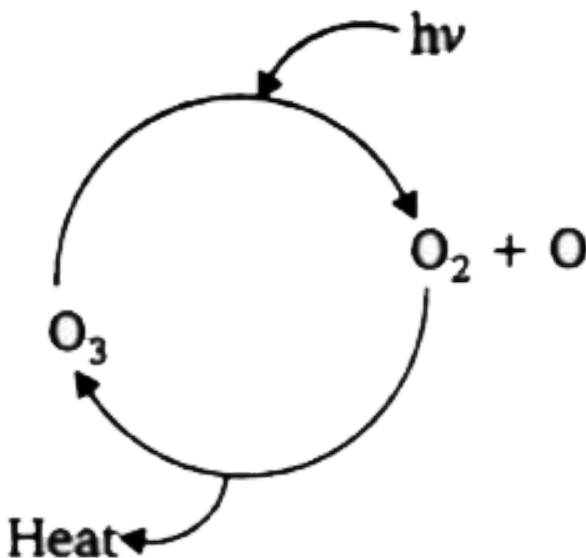
D. green house gases

Answer: A

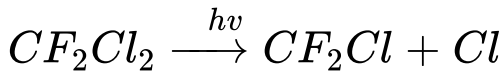


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2. When healthy earth's stratosphere contains a low concentration of ozone (O_3) that absorbs potentially harmful ultraviolet (UV) radiations by the cycle shown below:

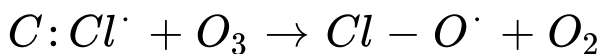
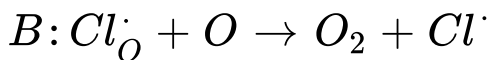
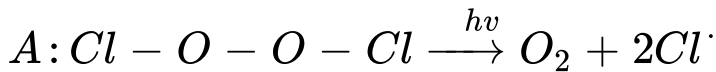


Chlorofluoro carbon refrigerants, such as freon 12 (CF_2Cl_2), are stable in lower atmosphere but in the stratosphere, they absorb high energy UV radiation to generate chlorine radicals.



The presence of small number of chlorine radicals appears to lower ozone concentrations dramatically.

The following reactions are all known to be exothermic (except the one requiring light) and to have high rate constant.





Q. Increased UV radiations due to hole in ozone layer:

- A. will cause increase in cases of skin diseases
- B. will cause more ice to melt
- C. will cause summer to be more warmer
- D. will cause more rain

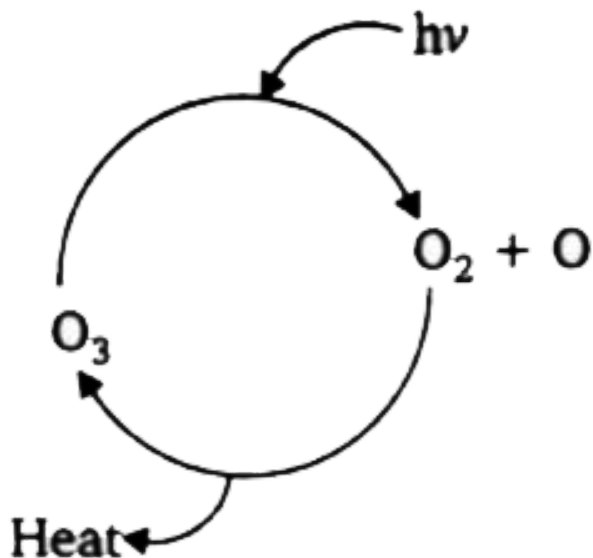
Answer: A



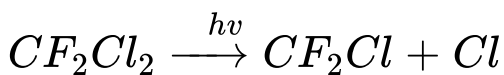
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3. When healthly earth's stratosphere contains a low concentration of ozone(O_3) that absorbs

potentially harmful ultraviolet (UV) radiations by the cycle shown below:



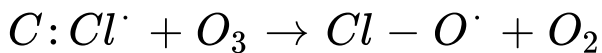
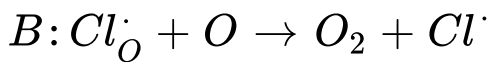
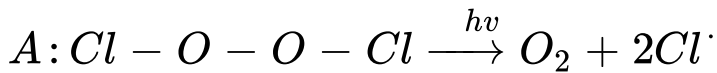
Chlorofluoro carbon refrigerants, such as freon 12(CF_2Cl_2), are stable in lower atmosphere but in the stratosphere, they absorb high energy UV radiation to generate chlorine radicals.



The presence of small number of chlorine radicals

appears to lower ozone concentrations dramatically.

The following reactions are all known to be exothermic (except the one requiring light) and to have high rate constant.



Q. Ozone has the ability to absorb

A. UV radiations

B. electromagnetic radiations

C. CFC

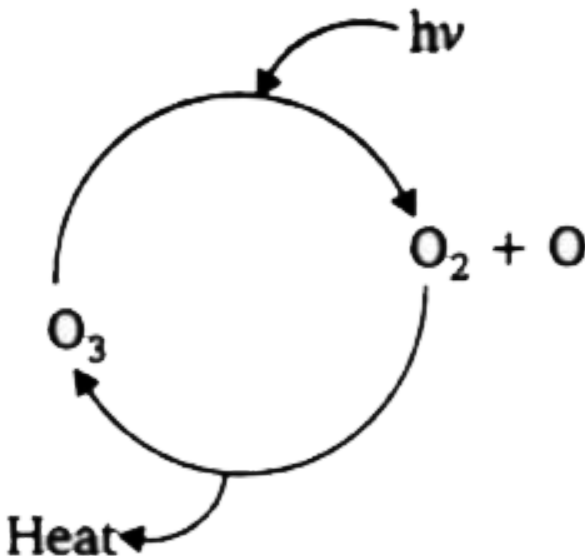
D. green house gases

Answer: A

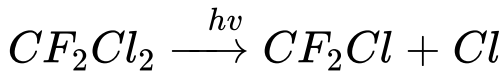


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4. When heathly earth's stratosphere contains a low concentration of ozone (O_3) that absorbs potentially harmful ultraviolet (UV) radiations by the cycle shown below:

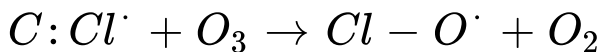
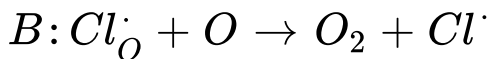
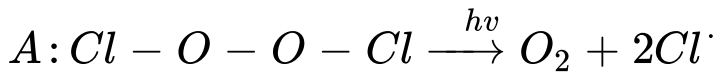


Chlorofluoro carbon refrigerants, such as freon 12 (CF_2Cl_2), are stable in lower atmosphere but in the stratosphere, they absorb high energy UV radiation to generate chlorine radicals.



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The following reactions are all known to be exothermic (except the one requiring light) and to have high rate constant.





Q. Ozone has the ability to absorb

- A. will cause increase in cases of skin diseases
- B. will cause more ice to melt
- C. will cause summer to be more warmer
- D. will cause more rain

Answer: A



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One Or More Answer Is Are Correct

1. Which of the following conditions shows the polluted environment ?

A. pH of rain water is 5.6

B. amount of carbondioxide in the atmosphere is
0.03%

C. biochemical oxygen demand 10ppm.

D. eutrophication

Answer: C::D



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2. Phosphate containing fertilisers cause water pollution. Addition of such compounds in water bodies causes. . .

A. enhanced growth of algae

B. decrease in amount of dissolved oxygen in water

C. deposition of calcium phosphate

D. increase in fish population

Answer: A::B



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3. The acids present in acid rain are _____.

A. Peroxyacetyl nitrate

B. H_2CO_3

C. HNO_3

D. H_2SO_4

Answer: B::C::D



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4. The consequences of global warming may be

- A. increase in average temperature of the earth
- B. melting of Himalayan Glaciers
- C. increased biochemical oxygen demand
- D. eutrophication

Answer: A::B



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5. Which of the following conditions shows the polluted environment ?

- A. pH of rain water is 5.6

B. amount of carbondioxide in the atmosphere is

0.03%

C. biochemical oxygen demand 10ppm.

D. eutrophication

Answer: C::D



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6. Phosphate containing fertilisers cause water pollution. Addition of such compounds in water bodies causes. . . .

A. enhanced growth of algae

B. decrease in amount of dissolved oxygen in
water

C. deposition of calcium phosphate

D. increase in fish population

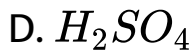
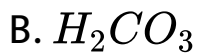
Answer: A::B



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7. The acids present in acid rain are _____.

A. Peroxyacetyl nitrate



Answer: B::C::D



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8. The consequences of global warming may be

A. increase in average temperature of the earth

B. melting of Himalayan Glaciers

C. increased biochemical oxygen demand

D. eutrophication

Answer: A::B



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Match The Column

1. Column-I and Column-II contains four entries each. Entries of Column-I are to be matched with some entries of Column-II. Each entry of Column-I may have the matching with one or more than one

entries of Column-II

Column-I	Column-II
(A) Acid rain	(P) $\text{CHCl}_2 - \text{CHF}_2$
(B) Photochemical smog	(Q) CO
(C) Combination with haemoglobin	(R) CO_2
(D) Depletion of ozone layer	(S) SO_2
	(T) Unsaturated hydrocarbons



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2. Column-I and Column-II contains four entries each.

Entries of Column-I are to be matched with some entries of Column-II. Each entry of Column-I may have the matching with one or more than one entries of Column-II

Column-I	Column-II
(A) Oxides of sulphur	(P) Global warming
(B) Nitrogen dioxide	(Q) Damage to kidney
(C) Carbon dioxide	(R) 'Blue baby' syndrome
(D) Nitrate in drinking water	(S) Respiratory diseases
(E) Lead	(T) Red haze in traffic and congested areas

3. Column-I and Column-II contains four entries each. Entries of Column-I are to be matched with some entries of Column-II. Each entry of Column-I may have the matching with one or more than one entries of Column-II

Column-I (Activity)	Column-II (Effect)
(A) Releasing gases to the atmosphere after burning waste material containing sulphur	(P) Water pollution
(B) Using carbamates as pesticides	(Q) Photochemical smog, damage to plant life, corrosion to building material, induce breathing problems, water pollution
(C) Using synthetic detergents for washing clothes	(R) Damaging ozone layer
(D) Releasing gases produced by automobiles and factories in the atmosphere	(S) May cause nerve diseases in human
(E) Using chlorofluorocarbon compounds for cleaning computer parts	(T) Classical smog, acid rain, water pollution, induce breathing problems, damage to buildings, corrosion of metals

4. Column-I and Column-II contains four entries each.

Entries of Column-I are to be matched with some entries of Column-II. Each entry of Column-I may have the matching with one or more than one entries of Column-II

Column-I	Column-II
(A) Phosphate fertilizers in water	(P) BOD level of water increases
(B) Methane in air	(Q) Acid ran
(C) Synthetic detergents in water	(R) Global warming
(D) Nitrogen oxides in air	(S) Eutrophication



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5. Column-I and Column-II contains four entries each.

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	(T) Unsaturated hydrocarbons



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Column-I	Column-II
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(B) Nitrogen dioxide	(Q) Damage to kidney
(C) Carbon dioxide	(R) 'Blue baby' syndrome
(D) Nitrate in drinking water	(S) Respiratory diseases
(E) Lead	(T) Red haze in traffic and congested areas



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(B) Methane in air	(Q) Acid ran
(C) Synthetic detergents in water	(R) Global warming
(D) Nitrogen oxides in air	(S) Eutrophication



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Assertion Reason Type Questions

1. Assertion (A) Green house effect was observed in houses used to grow plants and these are made of green glass.

Reason (R) Green house name has been given because glass houses are made of green glass.

A. If both assertion and reason are true and the reason is the correct explanation of assertion

B. If both assertion and reason are true and the reason is not the correct explanation of assertion

C. If assertion is true but the reason is false

D. If assertion is false but reason is true

Answer: C



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2. Assertion (A) : The pH of acid rain is less than 5.6.

Reason (R) : Carbon dioxide present in the

atmosphere dissolves in rain water and forms carbonic acid.

A. If both assertion and reason are true and the reason is the correct explanation of assertion

B. If both assertion and reason are true and the reason is not the correct explanation of assertion

C. If assertion is true but the reason is false

D. If assertion is false but reason is true

Answer: B



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3. Assertion (A) Photochemical smog is oxidising in nature.

Reason (R) Photochemical smog contains NO_2 and O_3 , which are formed during the sequence of reactions.

- A. If both assertion and reason are true and the reason is the correct explanation of assertion
- B. If both assertion and reason are true and the reason is not the correct explanation of assertion
- C. If assertion is true but the reason is false

D. If assertion is false but reason is true

Answer: A

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4. Assertion (A) : Carbon dioxide is one of the important greenhouse gases.

Reason (R) : It is largely produced by respiratory function of animals and plants.

A. If both assertion and reason are true and the reason is the correct explanation of assertion

B. If both assertion and reason are true and the reason is not the correct explanation of assertion

C. If assertion is true but the reason is false

D. If assertion is false but reason is true

Answer: B



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5. Assertion (A) : Ozone is destroyed by solar radiation in upper stratosphere.

Reason (R) : Thinning of the ozone layer allows

excessive UV radiations to reach the surface of earth.

- A. If both assertion and reason are true and the reason is the correct explanation of assertion
- B. If both assertion and reason are true and the reason is not the correct explanation of assertion
- C. If assertion is true but the reason is false
- D. If assertion is false but reason is true

Answer: D



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6. Assertion (A) : Excessive use of chlorinated synthetic pesticides causes soil and water pollution.

Reason (R) : Such pesticides are non-biodegradable.

- A. If both assertion and reason are true and the reason is the correct explanation of assertion
- B. If both assertion and reason are true and the reason is not the correct explanation of assertion
- C. If assertion is true but the reason is false
- D. If assertion is false but reason is true

Answer: A



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7. Assertion: If *BOD* level of water in a reservoir is less than 5 ppm it is highly pollution.

Reason: High biological oxygen demand means low activity of bacteria in water.

A. If both assertion and reason are true and the reason is the correct explanation of assertion

B. If both assertion and reason are true and the reason is not the correct explanation of

assertion

C. If assertion is true but the reason is false

D. If assertion is false but reason is true

Answer: C



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8. Assertion (A) Green house effect was observed in houses used to grow plants and these are made of green glass.

Reason (R) Green house name has been given because glass houses are made of green glass.

A. If both assertion and reason are true and the reason is the correct explanation of assertion

B. If both assertion and reason are true and the reason is not the correct explanation of assertion

C. If assertion is true but the reason is false

D. If assertion is false but reason is true

Answer: C



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9. Assertion (A) : The pH of acid rain is less than 5.6.

Reason (R) : Carbon dioxide present in the atmosphere dissolves in rain water and forms carbonic acid.

- A. If both assertion and reason are true and the reason is the correct explanation of assertion
- B. If both assertion and reason are true and the reason is not the correct explanation of assertion
- C. If assertion is true but the reason is false
- D. If assertion is false but reason is true

Answer: B



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10. Assertion (A) Photochemical smog is oxidising in nature.

Reason (R) Photochemical smog contains NO_2 and O_3 , which are formed during the sequence of reactions.

A. If both assertion and reason are true and the reason is the correct explanation of assertion

B. If both assertion and reason are true and the reason is not the correct explanation of

assertion

C. If assertion is true but the reason is false

D. If assertion is false but reason is true

Answer: A



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11. Assertion (A) : Carbon dioxide is one of the important greenhouse gases.

Reason (R) : It is largely produced by respiratory function of animals and plants.

A. If both assertion and reason are true and the reason is the correct explanation of assertion

B. If both assertion and reason are true and the reason is not the correct explanation of assertion

C. If assertion is true but the reason is false

D. If assertion is false but reason is true

Answer: B



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12. Assertion (A) : Ozone is destroyed by solar radiation in upper stratosphere.

Reason (R) : Thinning of the ozone layer allows excessive UV radiations to reach the surface of earth.

- A. If both assertion and reason are true and the reason is the correct explanation of assertion
- B. If both assertion and reason are true and the reason is not the correct explanation of assertion
- C. If assertion is true but the reason is false

D. If assertion is false but reason is true

Answer: D



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13. Assertion (A) : Excessive use of chlorinated synthetic pesticides causes soil and water pollution.

Reason (R) : Such pesticides are non-biodegradable.

A. If both assertion and reason are true and the reason is the correct explanation of assertion

B. If both assertion and reason are true and the reason is not the correct explanation of assertion

C. If assertion is true but the reason is false

D. If assertion is false but reason is true

Answer: A



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14. Assertion: If *BOD* level of water in a reservoir is less than 5 ppm it is highly pollution.

Reason: High biological oxygen demand means low activity of bacteria in water.

- A. If both assertion and reason are true and the reason is the correct explanation of assertion
- B. If both assertion and reason are true and the reason is not the correct explanation of assertion
- C. If assertion is true but the reason is false
- D. If assertion is false but reason is true

Answer: C



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