



CHEMISTRY

FOR IIT JEE ASPIRANTS OF CLASS 11 FOR CHEMISTRY

ENVIRONMENTAL CHEMISTRY

WE

1. Dissolved oxygen values of four water samples A, B, C and D are respectively 1 ppm, 3ppm, 5 ppm and 7 ppm. Which is more polluted ?



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2. Biochemical oxygen demand values of our water samples A, B, C and D are respectively 50 ppm, 100 ppm, 150 ppm and 40 ppm. Arrange them in the descending order of their purity.

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3. 100 ml of a sample of water requires 1.96 mg of potassium dichromate in the presence of 50 % H_2SO_4 for the oxidation of dissolved oxygen demand.

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4. *DO* value of a water sample is 6 ppm. Calculate the weight of dissolved oxygen present in 100 kg of water sample.

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5. The *COD* value of a water sample is 40 ppm. Calculate the amount of acidified $K_2Cr_2O_7$ required to oxidise the organic matter present in 500 ml of that water sample.

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6. Ozone is harmful in the Environment segment 'x' but it is useful in the environment segment 'y'. What are x and y?

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Level I C W

1. Environment consists of

(A) Atmosphere

(B) Hydrosphere

(C) Biosphere

A. A & B

B. B & C

C. C & A

D. A, B, C

Answer: 4



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2. Bhopal gas tragedy in 1984 was caused by

A. CO

B. $COCl_2$

C. Methyl isocyanide

D. Methyl isocyanate

Answer: 4



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3. Contaminant is

A. SO_2

B. $COCl_2$

C. Pb

D. Methyl isocyanate

Answer: D



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4. The pollutant is

- A. Leakage of *MIC*
- B. Oil spills from ships
- C. Carbon monoxide
- D. Leakage of Cl_2

Answer: 3



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5. A good quantity of water will have

(A) high *DO* (B) high *BOD* (C) high *COD*

A. A

B. B

C. C & A

D. A, B, C

Answer: 1



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6. The sink for dead plants and animals is

A. Seawater

B. River

C. Micro organisms

D. Atmosphere

Answer: 3

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7. The amount of oxygen required to oxidize organic substance present in water is called

- A. *DO*
- B. *COD*
- C. *BOD*
- D. *TLV*

Answer: 2

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8. The amount of oxygen used by micro organisms present in water for five days at $20^{\circ}C$ is called

A. *COD*

B. *DO*

C. *TLV*

D. *BOD*

Answer: 4



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9. Four samples of water A, B, C and D have the *DO* values 1 mg / litre, 3 mg /litre, 5 mg / litre and 8 mg/litre respectively. The more polluted sample of water is

A. A

B. B

C. C

D. D

Answer: 1



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10. Among the following the region of atmosphere containing ozone

- A. Troposphere
- B. Thermosphere
- C. Mesosphere
- D. Stratosphere

Answer: 4



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11. Organic pollution in water is measured by

A. P^H

B. Salinity

C. COD

D. DO

Answer: 3



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12. BOD values of 4 water samples A, B, C, D are 60, 80, 100 and 150 mg/lit respectively. Which is more polluted

A. A

B. B

C. C

D. D

Answer: 4



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13. Parameter for the true representation of organic pollution is

A. *COD*

B. *BOD*

C. *COD + BOD*

D. *DO*

Answer: 1

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14. If *BOD* of a river is high it means that the river is

- A. Not polluted
- B. Very much polluted with inorganic chemicals
- C. Very much polluted by organic chemicals which are decomposed by microorganisms
- D. Polluted by pesticides

Answer: 3

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15. BOD is connected with the

- A. Organic matter
- B. Microbes
- C. Microbes and organic matter
- D. Inorganic matter

Answer: 3

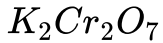


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16. Which of the following statements is false?

- A. Lower the concentration of *D. O* the more polluted is the water sample.
- B. The tolerable limit of lead in drinking water is 50 ppm
- C. Water is considered pure if it has *BOD* less than 5 ppm

D. Microbials are not oxidized by oxidizing agents like



Answer: 4



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17. Bauxite ore and oil wells belongs to

A. Atmosphere

B. Biosphere

C. Lithosphere

D. Hydrosphere

Answer: 3



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18. The following that can cause depletion of ozone is

A. H_2S

B. NO

C. Smoke

D. Aqua sols

Answer: 2



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19. Hottest region of the atmosphere is

A. Mesosphere

B. Stratosphere

C. Thermosphere

D. Troposphere

Answer: 3



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20. The lowest region of atmosphere is

A. Mesosphere

B. Troposphere

C. Stratosphere

D. Thermosphere

Answer: 2



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21. The minimum level of a pollutant above which a healthy individual worker is adversely affected on exposure to it for 8 hrs in a day is called

- A. Critical limit value
- B. Toxic limit value (TLV)
- C. Threshold limit value
- D. Dangerous limit value

Answer: 3



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22. Which of the following is a secondary air pollutant?

A. CO

B. Hydrocarbons

C. PAN

D. NO

Answer: 3



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23. Man dies in the atmosphere of CO because

A. It combines with the O_2 present in the body to form CO_2

B. It combines with the haemoglobin of blood making it incapable of absorbing O_2

C. It reduces the organic matter of tissues

D. It dries up the blood

Answer: 2



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24. The level of CO gas in air that causes immediate death is

A. 10 ppm

B. 100 ppm

C. 500 ppm

D. 1000 ppm

Answer: 4



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25. The automobile vehicle pollutant is

A. H_2O

B. NO_2

C. Particulate

D. Hydrocarbons

Answer: 2



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26. Atmosphere of big cities is polluted most by

A. Automobile exhausts

B. Radioactive fall out

C. Household waste

D. Pesticide residue

Answer: 1



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27. Incomplete combustion of petrol in automobile engines can be detected by testing the fuel gases for the presence of

A. CO_2 , H_2O

B. CO

C. NO_2

D. SO_2

Answer: 2



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28. Particulate pollutant is

A. H_2S

B. Smog

C. O_3

D. SO_2

Answer: 2



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29. The viable particulate among the following is

A. Algae

B. Smoke

C. Mist

D. Fume

Answer: 1



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30. Which of the following is a sink for CO ?

A. Animals

B. Microbes in soil

C. Oceans

D. Plants

Answer: 2



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31. The irritant redhaze in the traffic and congested places is due to:

A. Nitrogen

B. Carbon

C. Sulphur

D. 1, 2, 3

Answer: 1



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32. Fly ash is a contaminant in air due to

A. Thermal power plants

- B. Nuclear power plants
- C. Electrolytic refining of metals
- D. Hydro power plants.

Answer: 1

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33. The source of CO_2 in the atmosphere were

- (A) Combustion (B) Fermentation
- (C) Respiratory processes of animal life

- A. A & B
- B. B & C
- C. C & A
- D. A, B, C

Answer: 4



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34. Acid rain are due to

- A. Oxides of Phosphorous
- B. Oxides of nitrogen
- C. Oxides of sulphur
- D. Both 2 & 3

Answer: 4



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35. The pH of the acid rain is approximately

A. 5.6

B. 2 – 3

C. 7 – 9

D. > 10

Answer: 1



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36. Classical smog occurs in

A. Cool climate

B. Humid climate

C. Cool and humid climate

D. Hot and humid climate

Answer: 3



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37. PAN an important constituent of to chemical smog, is formed by the action of NO_2 and O_2 on

- A. Unburnt hydrocarbons
- B. Aldehydes
- C. Pesticides
- D. Herbicides

Answer: 1



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38. PAN or PBN is formed in photochemical smog by

- A. The action of nitrogen oxides on unburnt hydrocarbons in presence of sunlight
- B. The action of CO_2 on unburnt hydrocarbons in the presence of sunlight
- C. The action of H_2S on unburnt hydrocarbons in the presence of sunlight
- D. The action of O_2 on hydrocarbons.

Answer: 1



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39. Which one of the following statements regarding photochemical smog is not correct?

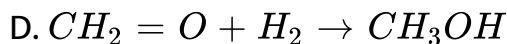
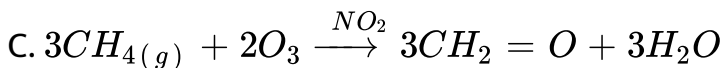
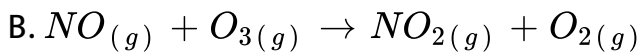
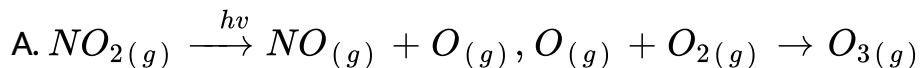
- A. CO does not play any role in photochemical smog
- B. Photochemical smog is an oxidising agent in character
- C. Photochemical smog is formed through photochemical reaction involving solar energy and nitrogen oxides
- D. Photochemical smog contains low concentration of oxidising agent.

Answer: 4



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40. In the formation of photochemical smog which of the following does not take place?



Answer: 4



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41. Depletion of ozone layer is not due to



C. *CFC's*

D. *CO*

Answer: 4



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42. Surface water contains.

A. Suspended impurity

B. Salt + organic matter

C. Only salt

D. Organic matter

Answer: 2



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43. Which cause death of fish in water bodies polluted by sewage?

- A. Decrease in D.O
- B. Increase in D.O
- C. Decrease in C.O.D
- D. All the above

Answer: 1



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44. Water polluted by toxic metals and their compounds cause

(A) Cancer (B) Diarrhoea (C) Skin disease

A. A & B

B. B & C

C. C & A

D. A, B, C

Answer: 4



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45. Untreated domestic sewage has a low

A. BOD value

B. % of dissolved O_2

C. Amounts of dissolved salts

D. % of suspended organic matter

Answer: 2



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46. Eutrophication in lakes takes place due to

- A. Excess of dissolved O_2
- B. Increase in soil pH
- C. Large concentrations of phosphate nutrients in water
- D. Dissolved fluorides

Answer: 3



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47. Bioamplification is due to

- A. Increase in the concentration of pesticides in water
- B. Gradual accumulation of pesticides from lower animals to higher animals
- C. Gradual decrease in concentration of pesticides in H_2O
- D. Increase in space of biosphere

Answer: 2



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48. A fertile soil is likely to have a pH of

- A. 3
- B. 9
- C. 6 – 7

D. 14

Answer: 3



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49. Saline solid contains

(A) High concentration of Salt

(B) Lot of moisture (C) Hard rocks

A. A

B. A & B

C. B & C

D. A, B, C

Answer: 1



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Level II C W

1. 500 ml of a sample *COD* of water required 19.6 mg of $K_2Cr_2O_7$ of water sample is

- A. 8 ppm
- B. 6.4 ppm
- C. 16.8 ppm
- D. 4.9 ppm

Answer: 2



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2. Which environmental segment interacts with all the other environmental segments?

A. Atmosphere

B. Biosphere

C. Lithosphere

D. Hydrosphere

Answer: 2



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3. The temperature in troposphere with altitude

A. Increase

B. Decrease

C. Increases and then decreases

D. Decreases and then increases

Answer: 2

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4. The chemical entities present in thermosphere of the atmosphere are

A. O_2^+ , O^+ , NO^+

B. O_3

C. N_2 , O_2 , CO_2 , H_2O

D. O_3 , O_2^+ , O_2

Answer: 1

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5. Assertion (A) : The medium which is affected by the pollutant is receptor

Reason (R) : The medium which reacts with pollutants is sink.

A. A & B

B. B & C

C. C & A

D. A, B & C

Answer: 4

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6. Identify the correct decreasing order of the following with respect to altitude from atmosphere

(I) Troposphere (II) Mesosphere

(III) Thermosphere

A. II, III, I

B. III, II, I

C. I, II, III

D. I, III, II

Answer: 2



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7. The correct increasing of the following with respect to temperature range

(I) Troposphere (II) Stratosphere

(III) Thermosphere

A. II, I, III

B. II, III, I

C. III, I, II

D. I, II, III

Answer: 4



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8. Very toxic gas which causes headache, visual difficulty, paralysis and even death in the human beings is

(A) CO_2 (B) O_3 (C) CO

A. A & B

B. A

C. C

D. B

Answer: 3



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9. When rain is accompanied by a thunderstorm, the collected rain water will have a pH :

A. Slightly lower than that of rain water without thunderstorm

B. Slightly higher than that when the thunderstorm is not there

C. Not influenced by occurrence of thunderstorm

D. Depends upon the amount of dust in air

Answer: 1



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10. Lung disease are four times more in Urban areas than Rural area. This is due to the presence of which

A. SO_2

B. CO_2

C. N_2

D. Water vapour

Answer: 1



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11. Diesel vehicles pollute the environment largely through

(A) CO (B) NO_x (C) Particulates

A. A & B

B. B & C

C. C & A

D. A, B & C

Answer: 4



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12. Green house effect is mainly due to increase in the levels of this substance in the atmosphere

A. O_2

B. CO

C. CO_2

D. N_2

Answer: 3



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13. The life and appearance of the historic monuments like Tajmahal are likely to be damaged by the presence of

A. Hydrocarbons

B. Excess of SO_2

C. CFC

D. Cl_2

Answer: 2

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14. If CCl_3F is present in the stratosphere, it will react with

(A) Ozone (B) N_2 (C) CO_2

A. A

B. B

C. A & B

D. C & A

Answer: 1

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15. Which one of the following statement is false?

- A. O_3 layer is destroyed by CFC_s
- B. O_3 involved in photochemical smog
- C. A product of photochemical smog is CO_2
- D. Smog reduces visibility

Answer: 3



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16. Peeling of ozone umbrella is due to

(I) PAN (II) Freons (III) CO_2 (IV) NO

The correct answer is

A. I, II

B. II, III

C. II, IV

D. III, IV

Answer: 3



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17. The proposal to ban supersonic jet planes in Russia is because

(A) They travel with very high speed

(B) It is dangerous to travel in them

(C) Their exhaust gases react with ozone

A. A & B

B. B

C. C

D. A

Answer: 3



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18. Chlorofluoro carbons are effective scavengers for ozone due to

A. Photolytic reaction of O_2 producing Cl radicals

B. Photolytic decomposition of O_2 producing O_3

C. Photolytic decomposition of O_3 by Cl into O_2

D. Photolytic production of oxides of nitrogen

Answer: 3



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19. Water of often treated with chlorine to

- A. Increase oxygen content
- B. Kill germs
- C. Remove suspended particles
- D. Remove hardness

Answer: 2



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20. Eutrophication causes reduction in

- (A) Nutrients (B) Dissolved salts
- (C) Dissolved oxygen

A. A

B. B & C

C. C

D. A, B & C

Answer: 3



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21. Which of the following is/are weedicides?

(A) Sodium chlorate (B) DDT

(C) Sodium arsenate (D) BHC

A. A, C

B. A, B

C. A, D

D. B, D

Answer: 1



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Level Iii

1. Assertion (A) : Ionosphere contains gases in the ionized form which form the basis for wireless communication.

Reason (R) : These ions reflect back the radio waves to the earth.

- A. Both A and R are true and R is the correct explanation of A.
- B. Both A and R are true but R is not correct explanation of A.
- C. A is true and R is false
- D. A is false and R is true.

Answer: 1



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2. Assertion (A) : Smaller particles (size < 5 microns) cause fibrosis of the lung lining

Reason (R) : They are more likely to penetrate into the lungs.

- A. Both A and R are true and R is the correct explanation of A.
- B. Both A and R are true but R is not correct explanation of A.
- C. A is true and R is false
- D. A is false and R is true.

Answer: 1



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3. Assertion (A) : The medium which is affected by the pollutant is receptor

Reason (R) : The medium which reacts with pollutants is sink.

- A. Both A and R are true and R is the correct explanation of A.
- B. Both A and R are true but R is not correct explanation of A.
- C. A is true and R is false
- D. A is false and R is true.

Answer: 2



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4. Assertion (A) : The lower the concentration of DO , the the more polluted is the water sample.

Reason (R) : Oxygen is consumed by microbes for the decomposition of organic matter present in water.

- A. Both A and R are true and R is the correct explanation of A.
- B. Both A and R are true but R is not correct explanation of A.
- C. A is true and R is false
- D. A is false and R is true.

Answer: 1



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5. Assertion (A) : Atmosphere plays an important role in maintaining the heat balance on earth.

Reason (R) : Atmosphere absorbs a portion of electromagnetic coming from the sun and transmits near UV, visible and near IR radiation.

- A. Both A and R are true and R is the correct explanation of A.
- B. Both A and R are true but R is not correct explanation of A.
- C. A is true and R is false
- D. A is false and R is true.

Answer: 1

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6. Assertion (A) : Excess amount of CO_2 in air is responsible for green house effect.

Reason (R) : CO_2 is largely produced in respiratory functions.

- A. Both A and R are true and R is the correct explanation of A.
- B. Both A and R are true but R is not correct explanation of A.
- C. A is true and R is false

D. A is false and R is true.

Answer: 2

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7. Assertion (A) : Alkylated mercury is more toxic than mercury.

Reason (R) : The toxicity of the pollutant depends upon the nature of speciation.

- A. Both A and R are true and R is the correct explanation of A.
- B. Both A and R are true but R is not correct explanation of A.
- C. A is true and R is false
- D. A is false and R is true.

Answer: 1

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8. Assertion: CO_2 and water vapour present in the atmosphere absorb the re-emitted IR radiations from the earth's surface and warm the air.

Reason: For greenhouse effect, presence of green plants is essential.

- A. Both A and R are true and R is the correct explanation of A.
- B. Both A and R are true but R is not correct explanation of A.
- C. A is true and R is false
- D. A is false and R is true.

Answer: 4

9. Assertion (A) : Countries like Netherlands, Bangladesh and Maldives face danger of getting submerged.

Reason (R) : Due to global warming, polar ice caps melt, increasing the level of sea water.

- A. Both A and R are true and R is the correct explanation of A.
- B. Both A and R are true but R is not correct explanation of A.
- C. A is true and R is false
- D. A is false and R is true.

Answer: 1



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10. Assertion (A) : Acid rain reduces the fertility of the soil.

Reason (R) : Acid rain has a corroding effect on marble buildings.

- A. Both A and R are true and R is the correct explanation of A.
- B. Both A and R are true but R is not correct explanation of A.
- C. A is true and R is false
- D. A is false and R is true.

Answer: 2



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11. Assertion (A) : Rain water normally has a P^H of ≤ 5.6 .

Reason (R) : This is due to the presence of H_2SO_4 and HNO_3 produced from oxides of sulphur and nitrogen.

- A. Both A and R are true and R is the correct explanation of A.
- B. Both A and R are true but R is not correct explanation of A.
- C. A is true and R is false

D. A is false and R is true.

Answer: 1



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12. Assertion (A) : The oxides of nitrogen and sulphur combine with rain water and come down as acid rain.

Reason (R) : Acid rains cause depletion of ozone layer.

- A. Both A and R are true and R is the correct explanation of A.
- B. Both A and R are true but R is not correct explanation of A.
- C. A is true and R is false
- D. A is false and R is true.

Answer: 3



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13. Assertion (A) : Acid rains have been reported in some places which are far away from the placed where industries are located.

Reason (R) : Rain clouds move from the idustrial areas to the other areas due to the below of wind

- A. Both A and R are true and R is the correct explanation of A.
- B. Both A and R are true but R is not correct explanation of A.
- C. A is true and R is false
- D. A is false and R is true.

Answer: 1

14. Assertion (A) : Aldehydes are one of the constituents of photochemical smog.

Reason (R) : Aldehydes are produced by photochemical oxidation of hydrocarbons by ozone.

- A. Both A and R are true and R is the correct explanation of A.
- B. Both A and R are true but R is not correct explanation of A.
- C. A is true and R is false
- D. A is false and R is true.

Answer: 1



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15. Assertion (A) : Fluorosis results if F^- ion concentration exceeds 10 ppm in drinking water.

Reason (R) : Nalgonda technique is a cheap method for removing F^- ions drinking water.

A. Both A and R are true and R is the correct explanation of A.

B. Both A and R are true but R is not correct explanation of A.

C. A is true and R is false

D. A is false and R is true.

Answer: 2



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16. 

The correct match is

A.

<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>
2	3	5	1

B.

<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>
3	4	2	5

C. $A \ B \ C \ D$
4 1 3 2

D. $A \ B \ C \ D$
1 2 4 3

Answer: 3



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17. 

The correct match is

A. $A \ B \ C \ D$
2 1 4 5

B. $A \ B \ C \ D$
3 2 5 1

C. $A \ B \ C \ D$
4 3 1 2

D. $A \ B \ C \ D$
1 2 4 3

Answer: 1



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18. 

The correct match is

A.

<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>
2	3	1	5

B.

<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>
3	4	5	2

C.

<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>
1	3	4	2

D.

<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>
4	2	1	3

Answer: 1



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19. 

The correct match is

- A. $\begin{matrix} A & B & C & D \\ 2 & 3 & 4 & 5 \end{matrix}$
- B. $\begin{matrix} A & B & C & D \\ 3 & 2 & 1 & 4 \end{matrix}$
- C. $\begin{matrix} A & B & C & D \\ 1 & 3 & 2 & 5 \end{matrix}$
- D. $\begin{matrix} A & B & C & D \\ 4 & 2 & 3 & 1 \end{matrix}$

Answer: 2



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20. 

The correct match is

- A. $\begin{matrix} A & B & C & D \\ 3 & 5 & 2 & 1 \end{matrix}$
- B. $\begin{matrix} A & B & C & D \\ 2 & 3 & 4 & 5 \end{matrix}$
- C. $\begin{matrix} A & B & C & D \\ 1 & 2 & 5 & 3 \end{matrix}$
- D. $\begin{matrix} A & B & C & D \\ 4 & 3 & 2 & 1 \end{matrix}$

Answer: 4



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21. 

The correct match is

A.

<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>
3	1	4	2

B.

<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>
4	2	3	1

C.

<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>
2	3	4	5

D.

<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>
1	5	2	3

Answer: 1



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22. 

The correct match is

- A. $A \ B \ C \ D$
 $I \ III \ IV \ II$
- B. $A \ B \ C \ D$
 $III \ I \ IV \ II$
- C. $A \ B \ C \ D$
 $III \ I \ II \ IV$
- D. $A \ B \ C \ D$
 $II \ III \ I \ IV$

Answer: 2



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23. 

The correct match is

- A. $A \ B \ C \ D$
 $IV \ II \ I \ III$

- B. $A \quad B \quad C \quad D$
 $IV \quad III \quad I \quad II$
- C. $A \quad B \quad C \quad D$
 $I \quad III \quad II \quad IV$
- D. $A \quad B \quad C \quad D$
 $IV \quad III \quad II \quad I$

Answer: 2



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24. 

The correct match is

- A. $A \quad B \quad C \quad D$
 $III \quad IV \quad II \quad I$
- B. $A \quad B \quad C \quad D$
 $I \quad II \quad IV \quad III$
- C. $A \quad B \quad C \quad D$
 $IV \quad III \quad I \quad II$
- D. $A \quad B \quad C \quad D$
 $III \quad IV \quad I \quad II$

Answer: 1



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25. 

The correct match is

A. $A \quad B \quad C \quad D$
 $I \quad II \quad III \quad IV$

B. $A \quad B \quad C \quad D$
 $I \quad III \quad II \quad IV$

C. $A \quad B \quad C \quad D$
 $II \quad III \quad I \quad IV$

D. $A \quad B \quad C \quad D$
 $III \quad II \quad I \quad IV$

Answer: 2



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26. 

The correct match is

A. $A \ B \ C \ D$
 $I \ II \ III \ IV$

B. $A \ B \ C \ D$
 $IV \ III \ I \ II$

C. $A \ B \ C \ D$
 $III \ IV \ II \ I$

D. $A \ B \ C \ D$
 $IV \ III \ II \ I$

Answer: 4



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27. 

The correct match is

A. $A \ B \ C \ D$
 $IV \ III \ I \ II$

- B. $A \quad B \quad C \quad D$
 $IV \quad II \quad I \quad III$
- C. $A \quad B \quad C \quad D$
 $II \quad IV \quad I \quad III$
- D. $A \quad B \quad C \quad D$
 $IV \quad I \quad III \quad II$

Answer: 3



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28. 

The correct match is

- A. $A \quad B \quad C \quad D$
 $II \quad III \quad I \quad IV$
- B. $A \quad B \quad C \quad D$
 $IV \quad II \quad I \quad III$
- C. $A \quad B \quad C \quad D$
 $II \quad IV \quad I \quad III$
- D. $A \quad B \quad C \quad D$
 $III \quad IV \quad I \quad II$

Answer: 3



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29. 

The correct match is

A. $\begin{matrix} A & B & C & D \\ II & III & I & IV \end{matrix}$

B. $\begin{matrix} A & B & C & D \\ IV & III & II & I \end{matrix}$

C. $\begin{matrix} A & B & C & D \\ I & III & II & IV \end{matrix}$

D. $\begin{matrix} A & B & C & D \\ II & III & IV & I \end{matrix}$

Answer: 2



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30. The concentration of fluoride, lead, nitrate and iron in a water sample from an underground lake was found to be 1000 ppb, 40 ppb, 100 ppm and 0.2 ppm, respectively. This water is unsuitable for drinking due to high concentration of

- A. Lead
- B. Nitrate
- C. Iron
- D. Fluoride

Answer: 2



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Level Iv

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

A. CO

B. O_3

C. CH_4

D. H_2O vapour

Answer: 1



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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

B. O_3

C. SO_2

D. Unsaturated hydrocarbon

Answer: 3



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

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

B. Produced in cold and humid climate

C. It contains compounds of reducing nature

D. It contains smoke, fog and sulphur dioxide

Answer: 1



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4. Biochemical Oxygen Demand (*BOD*) is a measure of organic materials present in water. If *BOD* value is less than $5p \pm$ then water sample is to be

- A. Rich in dissolved oxygen
- B. Poor in dissolved oxygen
- C. Highly polluted
- D. Not suitable for aquatic life

Answer: 1



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5. Which of the following statement(s) is/are wrong ?

A. Ozone is not responsible for green house effect

B. Ozone can oxides sulphur dioxide present in the atmosphere to sulphur trioxide

C. Ozone hole is thining of ozone layer present in stratosphere

D. Ozone is produced in upper stratosphere by the action of UV rays on oxygen

Answer: 1



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

- A. Large number of mosquitoes
- B. Increase in the amount of dissolved oxygen
- C. Decrease in the amount of dissolved oxygen in water
- D. Clogging of gills by mud

Answer: 3



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

- A. It is 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. Plantation of some plants like pinus helps in controlling photochemical smog

Answer: 2



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8. The gaseous envelope around the earth is known as atmosphere. The lowest layer of this is extended upto 10 km from sea level, this layer is

A. Stratosphere

B. Troposphere

C. Mesosphere

D. Hydrosphere

Answer: 2



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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

Answer: 1

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10. The pollutants which come directly in the air from sources are called primary pollutants. Primary pollutants are sometimes converted into secondary pollutants. Which of the following belongs to secondary air pollutants ?

A. CO

B. Hydrocarbons

C. Peroxyacetyl nitrate

D. NO

Answer: 3



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11. Which of the following statements is correct

A. Ozone hole is a hole formed in stratosphere from which ozone oozes out

B. Ozone hole is a hole formed in troposphere from which ozone oozes out

C. Ozone hole is thinning of ozone layer of stratosphere at some place

D. Ozone hole means vanishing of ozone layer around the earth completely

Answer: 3



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

A. If 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 neatly storing substances

Answer: 4



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13. 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. biocheical oxygen demand 10 ppm

D. eutrophication.

Answer: 2, 4



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14. Phosphate containing fertilisers cause water pollution.

Addition of such compounds in water bodies cause _____.

A. enganced growth of algae.

B. decrease in amount of dissolved oxygen in water.

C. deposition of calcium phosphate.

D. increase in fish population.

Answer: 1, 2



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15. The acids present in acid rain are _____.

A. Peroxyacetylnitrate

B. H_2CO_3

C. HNO_3

D. H_2DO_4

Answer: 2, 3, 4

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16. 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: 1, 2

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17. Match the terms given in Column I with the compounds given in Column II.





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18. Match the pollution(s) in column I with the effect(s) in column II.

Column I	Column II
A. Oxides of sulphur	1. Global warming
B. Nitrogen dioxide	2. Damage to kidney
C. Carbon dioxide	3. 'Blue baby' syndrome
D. Nitrate in drinking water	4. Respiratory diseases
E. Lead	5. Red haze in traffic and congested areas



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19. Match the activity given in Column I with the type of pollution created by it given in Column II.

Column I (Activity)	Column II (Effect)
A. Releasing gases to the atmosphere after burning waste material containing sulphur	1. Water pollution
B. Using carbamates as pesticides	2. Photochemical smog, damage to plant life, corrosion to building material, induce breathing problems, water pollution
C. Using synthetic detergents for washing clothes	3. Damaging ozone layer
D. Releasing gases produced by automobiles and factories in the atmosphere	4. May cause nerve diseases in human
E. Using chlorofluorocarbon compounds for cleaning computer parts	5. Classical smog, acid rain, water pollution, induce breathing problems, damage to buildings, corrosion of metals

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20. Match the pollutants given in Column I with their effects given in Column II.

Column I	Column II
A. Phosphate fertilisers in water	1. BOD level of water increases
B. Methane in air	2. Acid rain
C. Synthetic detergents in water	3. Global warming
D. Nitrogen oxides in air	4. Eutrophication

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21. 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. 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 A.

C. Both A and R are not correct.

D. A is not correct but R is correct.

Answer: 3



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22. 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. 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 A.

C. Both A and R are not correct.

D. A is not correct but R is correct.

Answer: 2



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23. Assertion: Photochemical smog is oxidising in nature.

Reason: Photochemical smog contains NO_2 and O_3 which are formed during the sequence of reactions.

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 A.

C. Both A and R are not correct.

D. A is not correct but R is correct.

Answer: 1



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24. 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. 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 A.

C. Both A and R are not correct.

D. A is not correct but R is correct.

Answer: 2



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25. 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. 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 A.

C. Both A and R are not correct.

D. A is not correct but R is correct.

Answer: 4



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

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

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 A.

C. Both A and R are not correct.

D. A is not correct but R is correct.

Answer: 1



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27. 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. 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 A.

C. Both A and R are not correct.

D. A is not correct but R is correct.

Answer: 3



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1. Lithosphere does not include

- A. Earth
- B. Mineraloil
- C. Mineral
- D. Sea water

Answer: 4



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2. Which of the following oxidants is used in the determination of *COD* of a water sample in the laboratory?

A. KNO_3

B. $KMnO_4$

C. Oxalic acid

D. $K_2Cr_2O_7 + 50\% H_2SO_4$

Answer: 4



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3. TLV indicates the permissible level of toxic substances that can

(A) be present in a mine

(B) not be present in an industry

(C) be tolerated by a worker in his surrounding atmosphere

A. A

B. B

C. C

D. A, B & C

Answer: 3



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4. *BOD* value less than 5 ppm indicates a water sample to be

A. Very clean

B. O_2 required to break down of organic matter is high

C. Not useful for drinking

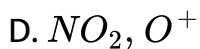
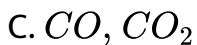
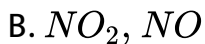
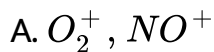
D. Not suitable for aquatic life

Answer: 1



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5. The chemicals present in mesosphere are



Answer: 1



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6. In which of the following region of atmosphere CO gas is present?

A. Mesosphere

B. Stratosphere

C. Thermosphere

D. Troposphere

Answer: 4



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7. High concentrations of gas retards that the rate of photosynthesis

A. CO_x

B. NO_x

C. SO_x

D. ClO_x

Answer: 3



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8. Catalytic converters used to reduce the effect of exhaust fumes from vehicles contains the coating of metal over ceramic honey comb.

A. *Zn*

B. *Pt*

C. *Cu*

D. *Al*

Answer: 2



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9. Pollution is mainly caused by

- A. Increase in population and decrease in natural resources
- B. Industrialisation
- C. Urbanization and deforestation
- D. All

Answer: 4



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10. The wrong statement in the following is

- A. Acid-rain takes place mostly because of presence of oxides of nitrogen and sulphur in the atmosphere.
- B. Chloro fluoro carbons are responsible for O_3 depletion.

C. Green house is responsible for global warming.

D. O_3 layer allows UV radiations to reach the earth.

Answer: 4



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11. UV radiation causes

A. Melanoma

B. Agening of skin

C. Cataract

D. All

Answer: 4



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12. To prevent damage of Taj Mahal the required measure/s is/are

A. People in Taj Trapezium shall use liquified petroleum gas instead of coal or oil

B. Automobiles on high ways shall use low sulphur content diesel.

C. Prevention of industries which allow SO_2 or NO_2 into atmosphere.

D. All

Answer: 4



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13. At the traffic signals our eyes get burning sensation due to the fumes emitted by vehicles. In this case the receptor is

- A. Signal
- B. Vehicle
- C. Eyes
- D. Fumes

Answer: 3



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14. Melting of ice caps is due to

- A. Depletion of ozone layer
- B. Global warming

C. Acid rain

D. eutrophication.

Answer: 2



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15. Global warming can be prevented by

A. Deforestation

B. Growing trees

C. Agricultural activities

D. Preventing use of herbicides

Answer: 2



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

A. Water vapour

B. O_3

C. CH_4

D. CO

Answer: 4



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17. Which one is not correct regarding green house effect?

A. It occurs due to high concentration of CO_2 in the atmosphere

B. It is caused by gases such as CH_4 , O_3 and chlorofluorocarbons

C. It would result in the warming up of the earth's surface

D. It would result in lowering the level of oceans due to high evaporation of sea water

Answer: 4



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18. Taj Mahal appearance is affected by pollution from

A. Hydrocarbons

B. Oxides of nitrogen

C. Oxides of sulphur

D. Both 2 & 3

Answer: 4



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19. Photochemical smog occurs in

- A. Warm climate
- B. Warm and wet climate
- C. Wet and sunny climate
- D. Warm, dry sunny climate

Answer: 4



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20. Which of the following deplete ozone layer?

A. SO_2

B. CO_2

C. CO

D. NO & freons

Answer: 4



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21. Species formed first in the depletion of ozone layer by chloro fluoro carbons

A. O_2 , F_2 , Cl

B. Cl & CF_2Cl

C. OF_2 , Cl

D. OCl_2 , Cl

Answer: 2



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22. Freons are

A. Metal fluorides

B. Poly cyclic fluorides

C. Chlorofluoro carbons

D. Iodo bromo carbon

Answer: 3



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23. Among the following compounds, which one is not responsible for depletion of ozone layer?



Answer: 1



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24. The common component/s of photochemical smog i/are



B. NO_2

C. Acrolein

D. All

Answer: 4



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25. Incorrect statement is

A. SO_2 , CO , Pb and Hg are pollutants

B. Methyl isocyanate and oil spills from ships are pollutants

C. Sea water is receptor for CO

D. Microorganism is sink for plants and animals

Answer: 3

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26. Increasing the concentration of accumulated pollutant along food chain is along food chain is

- A. Eutrophication
- B. Bioamplification
- C. Chemical amplification
- D. Biological pollution

Answer: 2

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27. Lakes containing excess of bacterial nutrients called

- A. Polluted lakes
- B. Eutrophic lakes
- C. Fertile lakes
- D. Green lakes

Answer: 2



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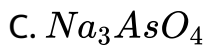
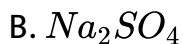
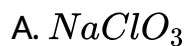
28. Beyond which minimum concentration of F^- water becomes useless for drinking purpose

- A. 10 ppm
- B. 5 ppm
- C. 2 ppm
- D. 20 ppm

Answer: 3

 [Watch Video Solution](#)

29. Which of the following is a herbicide?



Answer: 1

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30. Which of the following is/are proper method to dispose sludge ?

- (A) Incineration (B) Dumping
- (C) Anaerobic diestion by microbes
- (D) Filtration

A. C, D

B. A, B

C. B, C, D

D. A, B, C

Answer: 4



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31. Which of the following metals is/are toxic and pollutants?

(A) Cadmium (B) Lead (C) Mercury (D) Zinc

A. C, D

B. A, B

C. B, C, D

D. A, B, C

Answer: 4



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32. Domestic waste contains

A. Toxic pollutants

B. Non-biodegradable pollutants

C. Biodegradable pollutants

D. Both biodegradable and non-biodegradable pollutants

Answer: 4



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33. DDT as pesticide is introduced by which of the following

A. Aldrin

B. Dieldrin

C. Both 1 and 2

D. Na_3AsO_3

Answer: 3



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34. DDT is

- A. An antibiotic
- B. A fertilizer
- C. A non degradable pollutant
- D. Dichloro difluoro titanium

Answer: 3



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35. Sewagw containing organic waste when allowed into water bodies

- A. Helps in the growth of aquatic life

- B. Increases the amount of dissolved oxygen in water
- C. Decreases the amount of dissolved oxygen in water
- D. Helps in killing of bacteria

Answer: 3



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36. Which one is not correct statement regarding minimizing environmental pollution?

- A. Manures and biofertilizers should be used in place of chemical fertilizers.
- B. All nuclear tests to be stopped.
- C. Green belts in cities should be developed
- D. Domestic garbage must be burnt

Answer: 4



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37. The acceptable level of lead in drinking water in ppm is

A. 150

B. 250

C. 50

D. 80

Answer: 3



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38. The maximum prescribed concentration of cadmium in drinking water in ppm is

- A. 0.05
- B. 3
- C. 2
- D. 0.005

Answer: 4



[Watch Video Solution](#)

39. The maximum allowed concentration in ppm of zinc in drinking water

- A. 5.0

B. 0.05

C. 3.0

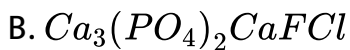
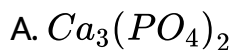
D. 0.2

Answer: 3



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40. F^- ions make enamel on teeth harder by converting hydroxy apatite into



Answer: 3



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41. addition of phosphates to water ponds causes eutrophication due to

- A. Reduction in dissolved oxygen concentration in water
- B. Enhancement of algae growth
- C. Inhibition of growth of other living organisms and subsequent loss of biodiversity
- D. All the above three

Answer: 4



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42. Presence of lead in water causes

- A. Damages kidney, liver
- B. Causes skin cancer
- C. Causes respiratory problems
- D. Irritation of eyes

Answer: 1



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43. DDT can act as

- A. Insecticide
- B. Weedicide
- C. Rodenticide

D. all of these

Answer: 4



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44. Carbamates are

(A) Nerve toxins (B) Biodegradable

(C) Pesticides (D) Insecticide

A. A & B only

B. B & C only

C. B & D only

D. All of these

Answer: 4



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45. Major water pollutants are

- A. Domestic sewage
- B. Chemical fertilizers
- C. Erosion of soil by strong mining
- D. All

Answer: 4

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Level II H W

1. Which of the following statements are correct ?

(A) Sink for CO is ocean

(B) Green house effect Causes lowering of temperature of earth's surface

(C) To control CO emission by automobiles, usually catalytic converters fitted into exhaust pipes

(D) H_2SO_4 , herbicides and insecticides form mists

A. A, B

B. C, D

C. B, D

D. A, D

Answer: 2



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2. Threshold limit values of X, Y and Z pollutants are 9 ppm, 10 ppm and 15 ppm. The correct answer is/are

- (A) X is more toxic than Y
- (B) X is less toxic than Y
- (C) Z is less toxic than X and Y
- (D) Y is more toxic than X and Z

The correct answer is

A. A, B

B. B, C

C. A, C

D. A, D

Answer: 3



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3. Which of the following indicates high level of pollution of water?

(A) High *DO* value (B) High *COD* value

(C) High *BOD* value (D) High *TLV*

The correct answer is

A. C, D

B. B, C

C. A, C, D

D. A, D

Answer: 2



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4. Identify the wrong statement in the following :

- A. Chlorofluorocarbons are responsible for ozone layer depletion.
- B. Greenhouse effect is responsible for global warming.
- C. Ozone layer permits UV radiation from the sun to reach the earth
- D. Acid rain is mostly because of oxides of nitrogen and sulphur.

Answer: 3

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5. Important sinks for CO_2 are

(A) Oceans (B) Plants

(C) Microorganisms

the correct answer is

A. A

B. A, B

C. A, B, C

D. A, C

Answer: 2



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6. Which of the following statements are correct

(A) Carbamates are nerve toxins

(B) diethanol amine is an environment friendly herbicide

(C) Fly ash is a contaminant in air due to thermal power plants and steel industry

(D) Haemoglobin of the blood forms carboxy haemoglobin with

CO

The correct answer is

A. A, B, C

B. B, C, D

C. A, B, D

D. A, B, C, D

Answer: 4



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7. The acceptable level of carbon monoxide gas (CO) in the atmosphere in ppm level is

A. 9

B. 250

C. 49

D. 850

Answer: 1



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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)increased biochemical oxygen demand.

A. A, D

B. A, C

C. A, B

D. A, B, C

Answer: 3



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9. Green house effect is caused by

(i) Acculation of O_2 in the atmosphere

(ii) Depletion of O_3 layer

(iii) Accumulation of CO_2 in the atmosphere

A. i & ii

B. i

C. iii

D. iii & i

Answer: 3



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10. Which of the following is/are polluted?

(a) Rain water, with pH 5.6

(b) The atmosphere contains 0.03 % CO_2

(c) River water with a COD value 10 ppm

(d) Pond water with phenomenon of eutrophication. The correct

answer is

A. a, b

B. a, c, d

C. a, d

D. a, b, c, d

Answer: 2



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11. The acid responsible to make rain water acidic is

(a) H_3PO_4 (b) H_2CO_3 (c) HNO_3 (d) H_2SO_4

the correct answer is

A. a, b

B. a, c

C. b, c, d

D. a, c, d

Answer: 3



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12. Air pollutant gases causing acid rain are :

A. H_2, O_3

B. CH_4, O_3

C. NO_2, SO_2

D. CO, CH_4

Answer: 3



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13. 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. CO_2 and SO_3

Answer: 2



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14. Which of the following is/are responsible for photochemical smog formation?

(A) CO_2 (B) SO_2 (C) NO

(D) hydrocarbons. The correct answer is

A. A, B

B. B, C

C. C, D

D. A, D

Answer: 3



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15. Formation of London smog takes place in

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

Answer: 4



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16. Identify the incorrect statement from the following:

- A. Oxides of nitrogen in the atmosphere can cause depletion of ozone layer

B. Ozone absorbs the intense ultraviolet radiations of the sun.

C. Depletion of ozone layer is because of its chemical reactions with chlorofluoro alkanes

D. Ozone absorbs infrared radiations.

Answer: 4



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17. Cataract and skin cancer are caused by

A. Depletion of nitric oxide

B. Depletion of ozone layer

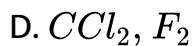
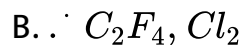
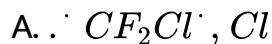
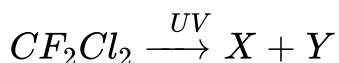
C. Increase in methane

D. Depletion of nitrous oxide

Answer: 2

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18. What are X and Y in the following reaction?



Answer: 1

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19. How many of the following in drinking water below 30 ppm do not cause any effect on the body as per international standards of _____ water?

Pb^{2+} , Hg^{2+} , Mn^{2+} , Cd^{2+} , Cl^{-} , NO_3^{-} , SO_4^{2-} , Ca^{2+} , Mg^{2+}

A. 5

B. 2

C. 3

D. 6

Answer: 1



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20. Agricultural outflows contains phosphate fertilizers leads to

(A) Enhanced growth of algae in rivers

(B) Decrease in the amount of dissolved oxygen in water

(C) Increase in fish pollution

The correct answer is

A. A, B

B. C

C. A, C

D. A, B, C

Answer: 1



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21. It is preferred to bleach paper using

A. H_2O_2 + catalyst

B. $NaOCl$

C. SO_2

D. Cl_2

Answer: 1



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22. Better medium of chemical reaction according to green chemistry is

A. Water

B. Ether

C. Ammonia

D. Benzene

Answer: 1



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23. Which of the following statement are correct?

(A) Ocean is sink for CO_2

(B) Green house effect causes lowering of temperature of earth's surface

(C) To control CO emission by automobiles usually catalytic convertor are fitted into exhaust pipes

(D) H_2SO_4 herbicides and insecticides from mist.

A. C & B

B. A & B

C. B & D

D. A, C & D

Answer: 4



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Examples

1. Dissolved oxygen values of four water samples A, B, C and D are respectively 1 ppm, 3ppm, 5 ppm and 7 ppm. Which is more polluted ?



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2. Biochemical oxygen demand values of our water samples A,B,C and D are respectively 50 ppm, 100 ppm, 150 ppm and 40 ppm. Arrange them in the descending order of their purity.



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3. 100 ml of a sample of water requires 1.96 mg of potassium dichromate in the presence of 50 % H_2SO_4 for the oxidation of dissolved oxygen demand.

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4. *DO* value of a water sample is 6 ppm. Calculate the weight of dissolved oxygen present in 100 kg of water sample.

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5. The *COD* value of a water sample is 40 ppm. Calculate the amount of acidified $K_2Cr_2O_7$ required to oxidise the organic matter present in 500 ml of that water sample.



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6. Which of the following substance is not present in acid rain ?

- A. Sulphuric acid
- B. Nitric acid
- C. Sulphurous acid
- D. Acetic acid

Answer:



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

- A. Gasoline
- B. Nuclear power plant
- C. Fossil fuels
- D. Sun

Answer:



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8. Which of the following is not a chemical pollutant ?

- A. Solid waste
- B. Noise
- C. Insecticides
- D. Liquied waste

Answer:



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9. The meaning BOD_5 is

- A. waste decomposed in 5 days
- B. oxygen used in 5 days
- C. microorganims killed in 5 days
- D. dissolved oxygen left after 5 days

Answer:



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

A. CO_2

B. CH_4

C. O_3

D. N_2

Answer:



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

A. pesticides in water

B. fluorides in water

C. carbon monoxide in air

D. sulphur dioxide in air

Answer:



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WE

1. Environmental pollution refers to

- A. peeling to top soil
- B. dissipation of energy
- C. release of toxic/ undesirable materials in environment
- D. None of the above

Answer:



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2. Photochemical smog consists of excessive amount of X in addition to aldehydes, ketones , PAN etc, X is

- A. Methane
- B. Carbon monoxide
- C. ozone
- D. carbondioxide

Answer:



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3. Result of ozone hole is

- A. acid rain
- B. global warming

C. increased amount of CO_2

D. greater exposure of earth to U.V rays

Answer:



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4. For an average exposure of 8 hours per day the maximum permissible concentration limit of CO in the atmosphere is

A. 50 Ppm

B. 500 pm

C. 10^3 ppm

D. 20 ppm

Answer:

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5. which is not a pollutant from exhaust of motor vehicle ?

A. Hydrocarbons

B. Carbond monoxide

C. NO_2

D. Fly ash

Answer:

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Evaluate Yourself 1

1. Which of the following present in chloroplast ?

A. Mn

B. Fe

C. Cu

D. All of these

Answer: D



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2. Which among these pollutants would kill the forest trees ?

A. Benzene

B. Benzpyrene

C. NO_2

D. PAN

Answer: D



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Evaluate Yourself 2

1. Which group of plants are not benefitted by CO_2 fertilisation effect ?

- A. Increase mycorrhizal growth
- B. Partial closure of stomata
- C. Growth of C_3 plants increase
- D. Reduced leaf lamina

Answer: D



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2. Photochemical smog is composed mainly of ,

A. O_3 PAN and O_2

B. O_3 , SO_2 , NO_2

C. O_3 , NO_2 , PAN

D. SO_2 , CO_2 , O_3

Answer: C



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3. Normally, the pH of rain water is in the range of :

A. 5.6-6.5

B. 6.5-7.5

C. 7.0-7.5

D. 7.5-8.0

Answer: A



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4. In an aquatic ecosystem having pollution of DDT and garbage, COD will be

A. Less than BOD

B. More than BOD

C. Equal to BOD

D. Half of BOD

Answer: B

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5. Which green house gas contributes the least to global warming ?

A. CH_4

B. CFC

C. N_2O

D. CO_2

Answer: C

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6. Events that take place in eutrophication on given below

(a) excessive growth of algae

(b) depletion of dissolved oxygen

(c) bacteria feed on dead algae cells

(d) aquatic body becomes rich in phosphates

The correct order of events cells that occurs here is

A. (a),(d),(c) and (b)

B. (d),(a),(c) and (b)

C. (a), (b),(d) and (c)

D. (d),(c), (b) and (a)

Answer: B



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7. Increase in the formation of algae due to increase in nitrogen leading to decrease in dissolved oxygen is known as

A. Biomagnification

B. Incineration

C. Eutrophication

D. Pneumoconiosis

Answer: C



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8. Fishes are more comfortable in

A. Hot water

B. Warm water

C. Cold water

D. Ice

Answer: C



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Exercise I C W Enviromental Segments Definitons Terms

1. Environment consists of

(A) Atmosphere

(B) Hydrosphere

(C) Biosphere

A. A & B

B. B & C

C. C & A

D. A,B,C

Answer: D

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2. Bhopal gas tragedy in 1984 was caused by

A. CO

B. COCl_2

C. Methyl isocyanide

D. Methyl isocyanate

Answer: D

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3. Contaminant is

A. SO_2

B. $COCl_2$

C. Pb

D. Methyl isocyanate

Answer: D



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4. The pollutant is

A. Leakage of MIC

B. Oil spills from ships

C. carbon monoxide in air

D. Leakage of Cl_2

Answer: C



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5. A good quantity of water will have

(A) high *DO* (B) high *BOD* (C) high *COD*

A. A

B. B & C

C. C & A

D. A,B,C

Answer: A



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6. The sink for dead plants and animals is

- A. Seawater
- B. River
- C. Micro organisms
- D. Atmosphere

Answer: C



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7. The amount of oxidized organic substance present in water is called

- A. DO
- B. COD

C. BOD

D. TLV

Answer: B



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8. The amount of oxygen used by micro organisms present in water for five days at $20^{\circ}C$ is called

A. COD

B. DO

C. TLV

D. BOD

Answer: D

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9. Four samples of water A, B, C and D have the *DO* values 1 mg / litre, 3 mg /litre, 5 mg / litre and 8 mg/litre respectively. The more polluted sample of water is

A. A

B. B

C. C

D. D

Answer: A

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10. Among the following the region of atmosphere containing ozone

- A. Troposphere
- B. Thermosphere
- C. Mesosphere
- D. Stratosphere

Answer: D



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11. Organic pollution in water is measured by

- A. P^H
- B. Salinity

C. COD

D. DO

Answer: C



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12. BOD values of 4 water samples A, B, C, D are 60, 80, 100 and 150 mg/lit respectively. Which is more polluted

A. A

B. B

C. C

D. D

Answer: D

 [Watch Video Solution](#)

13. Parameter for the true representation of organic pollution is

- A. COD
- B. BOD
- C. COD+BOD
- D. DO

Answer: A

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14. If *BOD* of a river is high it means that the river is

- A. Not polluted

B. very much polluted with inorganic chemicals

C. Very much polluted by organic chemicals which are decomposed by microorganisms

D. Polluted by pesticides

Answer: C



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15. BOD is connected with the

A. Organic matter

B. Microbes

C. Microbes and organic matter

D. Inorganic matter

Answer: C



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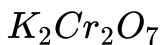
16. Which of the following statements is false ?

A. Lower the concentration of D.O the more polluted is the water sample.

B. The tolerable limit of lead in drinking water is 50

C. Water is considered pure if it has BOD less than 5 ppm

D. Microbials are not oxidized by oxidizing agents like



Answer: D



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17. Bauxite ore and oil wells belongs to

- A. Atmosphere
- B. Biosphere
- C. Lithosphere
- D. Hydrosphere

Answer: C



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18. The following that can cause depletion of ozone is

- A. H_2S
- B. NO
- C. Smoke

D. Aqua sols

Answer: B



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19. Hottest region of the atmosphere is

A. Mesosphere

B. Stratosphere

C. Thermosphere

D. Troposphere

Answer: C



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20. The lowest region of atmosphere is

- A. Mesosphere
- B. Troposphere
- C. Stratosphere
- D. Thermosphere

Answer: B



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21. The minimum level of a pollutant above which a healthy individual worker is adversely affected on exposure to it for 8 hrs in a day is called

- A. Critical limit value

B. Toxic limit value (TLV)

C. Thershold limit value

D. Dangerous limit value

Answer: C



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Exercise I C W Air Pollution

1. Which of the following is a secondary air pollutant?

A. CO

B. Hydrocarbons

C. PAN

D. NO

Answer: C



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2. Man dies in the atmosphere of CO because

- A. It combines with the O_2 present in the body to form CO_2
- B. It combines with the haemoglobin of blood making it incapable of absorbing O_2
- C. It reduces the organic matter of tissues
- D. It dries up the blood

Answer: B



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3. The level of CO gas in air that causes immediate death is

A. 10 ppm

B. 100 ppm

C. 500 ppm

D. 1000 ppm

Answer: D



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4. The automobile vehicle pollutant is a) H_2O b) NO_2
c) Particulate d) Hydrocarbons

A. H_2

B. NO_2

C. Particulate

D. Hydrocarbons

Answer: B



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5. Atmosphere of big cities is polluted most by a)Automobile exhausts b)Radioactive fall out c)Household waste d)Pesticide residue

A. Automobile exhausts

B. Radioactive fall out

C. Houshold waste

D. Pesticide rediue

Answer: A



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6. Incomplete combustion of petrol in automobile engines can be detected by testing the fuel gases for the presence of a) CO_2, H_2O b) CO c) NO_2 d) SO_2

A. CO_2, H_2O

B. CO

C. NO_2

D. SO_2

Answer: B



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7. Particulate pollutant is

- A. H_2S
- B. Smog
- C. O_3
- D. SO_2

Answer: B



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8. Which one of the following is a viable particulate

- A. Algae
- B. Smoke
- C. Mist

D. Fume

Answer: A



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9. Which of the following is a sink for CO_2 ?

A. Animals

B. Microbes in soil

C. Oceans

D. Plants

Answer: B



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10. The irritant red haze in the traffic and congested places is due to oxides of ,

A. Nitrogen

B. Carbond

C. Sulphur

D. 1,2,3

Answer: A



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11. Fly ash is a contaminant in air due to a)Thermal power plants
b)Nuclear power plants c)Electrolytic refining of metals d)Hydro
power plants.

- A. Thermal power plants
- B. Nuclear power plant
- C. Electrolytic refining of metals
- D. Hydro power plants.

Answer: A



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12. The source of CO_2 in the atmosphere were

- (A) Combustion (B) Fermentation
- (C) Respiratory processes of animal life

A. $A \& B$

B. $B \& C$

C. $C \& A$

D. *A, B, C*

Answer: D



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Exercise I C W Acid Rains Smog Depletion Of O₃ Layer

1. Acid rain are due to a)Oxides of Phosphorous b)Oxides of nitrogen c)Oxides of sulphur d)Both 2 & 3

A. Oxides of Phosphorous

B. Oxides of nitrogen

C. Oxides of sulphur

D. Both 2 & 3

Answer: D



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2. The pH of the acid rain is approximately a) 5.6 b) 2 – 3 c) 7 – 9
d) > 10

A. 5.6

B. 2 – 3

C. 7 – 9

D. > 10

Answer: A



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3. Classical smog occurs in a)Cool climate b) Humid climate
c)Cool and humid climate d)Hot and humid climate

- A. Cool climate
- B. Humid climate
- C. Cool and humid climate
- D. Hot and humid climate

Answer: C



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4. PAN an important constituent of photochemical smog, is formed
by the action of NO_2 and O_3 on

- A. Unburnt hydrocarbons

B. Aldehydes

C. Pesticides

D. Herbicides

Answer: A



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5. PAN or PBN is formed in photochemical smog by

A. The action of nitrogen oxides on unburnt hydrocarbons in

presence of sunlight

B. The action of CO_2 on unburnt hydrocarbons in the

presence of sunlight

C. The action of H_2S on unburnt hydrocarbons in the presence of sunlight

D. The action of O_2 on hydrocarbons.

Answer: A



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6. Which one of the following statements regarding photochemical smog is not correct?

A. CO does not play any role in photochemical smog

B. Photochemical smog is an oxidising agent in character

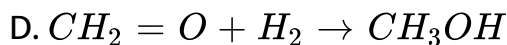
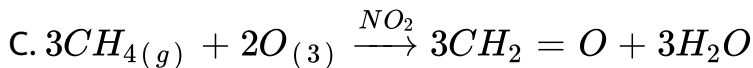
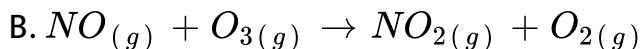
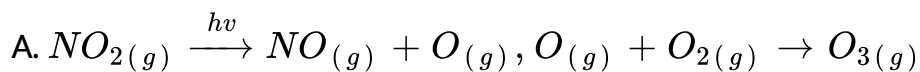
C. Photochemical smog is formed through photochemical reaction involving solar energy and nitrogen oxides.

D. Photochemical smog contains low concentration of oxidising agent.

Answer: D

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7. In the formation of photochemical smog which of the following does not take place?



Answer: D

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8. Depletion of ozone layer is not due to a) Cl_2 b) NO c) $CFC's$
d) CO

A. Cl_2

B. NO

C. $CFC's$

D. CO

Answer: D

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Exercise I C W Water Pollution

1. Surface water contains.

- A. Suspended impurity
- B. Salt + organic matter
- C. Only salt
- D. Organic matter

Answer: B



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2. Which cause death of fish in water bodies polluted by sewage?

- A. Decrease in D. O
- B. Increase in D.O
- C. Decrease in C.O. D

D. All the above

Answer: A



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3. Water polluted by toxic metals and their compounds cause (A)

Cancer (B) Diarrhoea (C) Skin disease

A. A & B

B. B & C

C. C & A

D. A,B,C

Answer: D



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4. Untreated domestic sewage has a low

- A. BOD values
- B. % of dissolved O_2
- C. Amounts of dissolved salts
- D. % of suspended organic matter

Answer: B



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5. Eutrophication in lakes takes place due to

- A. Excess of dissolved O_2
- B. Increase in soil pH

C. Large concentrations of phosphate nutrients in water

D. Dissolved fluorides

Answer: C



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6. Bioamplification is due to

A. Increase in the concentration of pesticides in water

B. Gradual accumulation of pesticides in from lower animals
to higher animals

C. Gradual decrease in concentration of pesticides in H_2O

D. Increase in space of biosphere

Answer: B

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Exercise I C W Soil Pollution

1. A fertile soil is likely to have a pH of

A. 3

B. 9

C. 6 – 7

D. 14

Answer: C

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2. Saline solid contains

(A) High concentration of Salt

(B) Lot of moisture (C) Hard rocks

A. A

B. A & B

C. B & C

D. A,B,C

Answer: A



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Exercise I H W Environmental Segments Definitions Terms

1. Lithosphere does not include a)Earth b)Mineraloil c)Mineral
d)Sea water

A. Earth

B. Mineraloil

C. Mineral

D. Sea water

Answer: D



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2. Which of the following oxidants is used in the determination of *COD* of a water sample in the laboratory?

A. KNO_3

B. $KMnO_4$

C. Oxalic acid

D. $K_2Cr_2O_7 + 50\% H_2SO_4$

Answer: D



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3. TLV indicates the permissible level of toxic substance that can

A) be present in a mine

B) not be present in an industry

C) be tolerated by a worker in his surrounding atmosphere

A. A

B. B

C. C

D. A,B & C

Answer: C



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4. *BOD* value less than 5 ppm indicates a water sample to be
a)Very clean b) O_2 required to break down of organic matter is
high c)Not useful for drinking d)Not suitable for aquatic life

A. very clean

B. O_2 required to break down of organic matter is high

C. Not useful for drinking

D. Not suitable for aquatic life

Answer: A



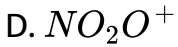
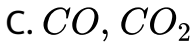
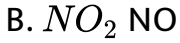
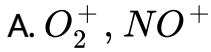
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5. The gaseous envelope around the earth is known as atmosphere. The lowest layer of this is extended upto 10 km from sea level, this layer is

- A. Stratosphere
- B. Treposhere
- C. Mesosphere
- D. Hydrosphere

Answer: B

1. The chemicals present in mesosphere are



Answer: A



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2. In which of the following region of atmosphere CO gas is present? a) Mesosphere b) Stratosphere c) Thermosphere d) Troposphere

A. Mesosphere

B. Stratosphere

C. Thermosphere

D. Troposphere

Answer: D



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3. High concentrations of gas retards that the rate of photosynthesis

A. CO_x

B. NO_x

C. SO_x

D. ClO_x

Answer: C

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4. Catalytic converters used to reduce the effect of exhaust fumes from vehicles contains the coating of metal over ceramic honey comb.

A. *Zn*

B. *Pt*

C. *Cu*

D. *Al*

Answer: B

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5. Pollution is mainly caused by a) Increase in population and decrease in natural resources b) Industrialisation c) Urbanization and deforestation d) Urbanization and deforestation

A. Increase in population and decrease in natural resource

B. Industrialisation

C. Urbanization and deforestation

D. All

Answer: D



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6. Which of the following statements is not correct

A. O_3 is not responsible for green house effect

B. O_3 can oxidise SO_2 present in atmosphere to SO_3

C. O_3 hole is thinning of ozone layer present in the stratosphere

D. O_3 is produced in upper stratosphere

Answer: A

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7. The wrong statement in the following is a) Acid-rain takes place mostly because of presence of oxides of nitrogen and sulphur in the atmosphere. b) Chloro fluoro carbons are responsible for O_3 depletion c) Green house is responsible for global warming. d) O_3 layer allows UV radiations to reach the earth

- A. Acid rain takes place mostly because of presence of oxides of nitrogen and sulphur in the atmosphere.
- B. Chloro fluoro carbons are responsible for O_3 depletion.
- C. Green house effects is responsible for global warming .
- D. O_3 layer allows UV radiations to reach the earth .

Answer: D



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8. UV radiation causes a)Melanoma b)Agening of skin c)Cataract
d)All

A. Melanoma

B. Agening of skin

C. Cataract

D. All

Answer: D



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9. To prevent damage of Taj Mahal the required measure/s is/are
a) People in Taj Trapezium shall use liquified petroleum gas instead of coal or oil
b) Automobiles on high ways shall use low sulphur content diesel.
c) Prevention of industries which allow SO_2 or NO_2 into atmosphere.
d) all

A. People in Taj Trapezium shall use liquified petroleum gas instead of coal or oil

B. Automobiles on high ways shall use low sulphur content diesel.

C. Prevention of industries which allow SO_2 or NO_2 into atmosphere.

D. All

Answer: D



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10. At the traffic signals our eyes get burning sensation due to the fumes emitted by vehicles. In this case the receptor is
a)Signal b)Vehicle c)Eyes d)Fumes

A. Signal

B. Vechicle

C. Eyes

D. Fumes

Answer: C



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11. Melting of ice caps is due to a) Depletion of ozone layer
b) Global warming c) Acid rain d) eutrophication.

A. Depletion of ozone layer

B. Global warming

C. Acid rain

D. Eutrophication

Answer: B



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12. Global warming can be prevented by a)Deforestation
b)Growing trees c)Agricultural activities d)Preventing use of herbicides

A. Deforestation

B. Grwoing trees

C. Agricultural activities

D. Preventing use of herbicides

Answer: B



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

A. Water vapour

B. O_3

C. CH_4

D. CO

Answer: D



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14. Which one is not correct regarding green house effect? a)It occurs due to high concentration of CO_2 in the atmosphere b)It is caused by gases such as CH_4 , O_3 and chlorofluorocarbons c)It would result in the warming up of the earth's surface d)It would result in lowering the level of oceans due to high evaporation of sea water

- A. It occurs due to high concentration of CO_2 in the atmosphere
- B. It is caused by gases such as CH_4 , O_3 and chlorofluorocarbons
- C. It would result in warming up of the earth's surface
- D. It would result in lowering the level of oceans due to high evaporation of sea water

Answer: D



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Exercise I H W Acid Rains Smog Depletion Of O₃ Layer

1. Taj Mahal appearance is affected by pollution from
a)Hydrocarbons b)Oxides of nitrogen c)Oxides of sulphur d)Both

2 & 3

A. Hydrocarbons

B. Oxides of nitrogen

C. Oxides of sulphur

D. Both 2 & 3

Answer: D



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2. Photochemical smog occurs in

A. Warm climate

- B. Warm and wet climate
- C. Wet and sunny climate
- D. Warm , dry sunny climate

Answer: D



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

- A. The main components are produced by the action of sunlight on emission of automobiles and factories
- B. Occurs in cold and humid climate
- C. it contains reducing agents
- D. It contains smoke, fog and SO_2

Answer: A



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4. Which of the following deplete ozone layer? a) SO_2 b) CO_2 c) CO d) NO & freons

A. SO_2

B. CO_2

C. CO

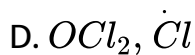
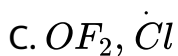
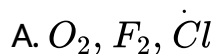
D. NO & Freons

Answer: D



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5. Species formed first in the depletion of ozone layer by chloro fluoro carbons



Answer: B



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6. Freons are

A. Metal fluorides

B. Poly cyclic fluorides

C. Chlorofluro carbons

D. Iodo bromo carbon

Answer: C



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7. Among the following compounds, which one is not responsible for depletion of ozone layer? a) N_2 b) $CFCl_3$ c) NO D)

Cl_2

A. N_2

B. $CFCl_3$

C. NO

D. Cl_2

Answer: A



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8. The common component/s of photochemical smog i/are

A. CH_2O

B. NO_2

C. Acrolein

D. All

Answer: D



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1. Incorrect statement is

- A. SO_2 , CO , Pb and Hg are pollutants
- B. Methyl isocyanate and oil spills from ships are pollutants
- C. Sea water is receptor for CO
- D. Microorganism is sink for dead plants and animals

Answer: C



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2. Increasing the concentration of accumulated pollutant along food chain is along food chain is

- A. Eutrophication
- B. Bioamplification

C. Chemical amplification

D. Biological pollution

Answer: B



[Watch Video Solution](#)

3. Lakes containing excess of bacterial nutrients called

A. Polluted lakes

B. Eutrophic lakes

C. Fertile lakes

D. Green lakes

Answer: B



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4. Beyond which minimum concentration of F water becomes useless for drinking purpose

A. 10 ppm

B. 5 ppm

C. 2 ppm

D. 20 ppm

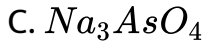
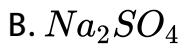
Answer: C



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5. Which of the following is a herbicide?

A. $NaClO_3$



Answer: A



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6. Which of the following is / are proper method to dispose sludge ?

A) Incineration

B) Dumping

C) Anaerobic digestion by microbes

D) Filtration

A. C,D

B. A,B

C. B,C,D

D. A,B,C,D

Answer: D



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7. Which of the following metals is /are toxic and pollutants ?

A) Cadmium

B) Lead

C) Mercury

D) Zinc

A. C,D

B. A,B

C. B,C,D

D. A,B,C

Answer: D



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8. Domestic waste contains

A. Toxic pollutants

B. Non-biodegradable pollutants

C. Biodegradable pollutants

D. Both biodegradable and non-biodegradable pollutants

Answer: D



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9. DDT as pesticide is introduced by which of the following

A. Aldrin

B. Dieldrin

C. Both 1 and 2

D. Na_3AsO_3

Answer: C



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10. DDT is

A. An antibiotic

B. A fertilizer

C. A non degradable pollutant

D. Dichloro difluoro titanium

Answer: C



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11. Sewagw containing organic waste when allowed into water bodies A)Helps in the growth of aquatic life B)Increases the amount of dissolved oxygen in water C)Decreases the amount of dissolved oxygen in water D)Helps in killing of bacteria

A. Helps in the grwothe of aquatic life

B. Increase the amount of dissolved oxygen in water

C. Decreases the amount of dissolved oxygen in water

D. Helps in killing of bacteria

Answer: C



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12. Which one is not correct statement regarding minimizing environmental pollution ?

- A. Manures and biofertilizers should be used in place of chemical fertilizers
- B. All nuclear tests should be stopped
- C. Green belts in cities should be developed
- D. Domestic garbage must be burnt.

Answer: D



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13. The acceptable level of lead in drinking water in ppm is A)501
B)250 C)50 D)80

A. 150

B. 250

C. 50

D. 80

Answer: C



Watch Video Solution

14. The maximum prescribed concentration of cadmium in drinking water in ppm is

A. 0.5

B. 3

C. 2

D. 0.005

Answer: D



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15. The maximum allowed concentration in ppm of zinc in drinking water

A. 5.0

B. 0.05

C. 3.0

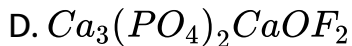
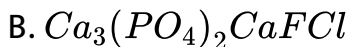
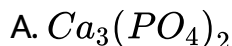
D. 0.2

Answer: C



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16. F^- ions make enamel on teeth harder by converting hydroxyapatite into



Answer: C



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17. addition of phosphates to water ponds causes eutrophication due to

- A. Reduction in dissolved oxygen concentration in water
- B. Enhancement of algae growth
- C. Inhibition of growth of other living organisms and subsequent loss of biodiversity
- D. All the above three

Answer: D



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18. Presence of lead in water causes

- A. Damages kidney , liver

- B. Causes skin cancer
- C. Causes respiratory problems
- D. Irritation of eyes

Answer: A



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19. DDT can act as

- A. Insecticide
- B. Weedicide
- C. Rodenticide
- D. Nerve toxins

Answer: D

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20. Carbamates are

(A) Nerve toxins (B) Biodegradable

(C) Pesticides (D) Insecticide

A. A & B only

B. B & C only

C. B & C only

D. All of these

Answer: D

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21. Major water pollutants are

- A. Domestic sewage
- B. Chemical fertilizers
- C. Erosion of soil by strong mining
- D. All

Answer: D



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Exercise li A C W Enviromental Segments Definitions Terms

1. 500 ml of sample COD of water required 19.6 mg of $K_2Cr_2O_7$ of water sample is

- A. 8 ppm
- B. 6.4 ppm

C. 16.8 ppm

D. 4.9 ppm

Answer: B



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2. Which environmental segment interacts with all the other environmental segments?

A. Atmosphere

B. Biosphere

C. Lithosphere

D. Hydrosphere

Answer: B

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3. The temperature in troposphere with altitude

A. Increases

B. Decreases

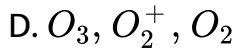
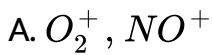
C. Increases and then increases

D.

Answer: B

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4. The chemical entities present in thermosphere of the atmosphere are



Answer: A



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5. Which is the correct statement ?

A) Receptor is the medium which is affected by the pollutant.

Sink is the medium which decreases the effect of pollutant B)

C) COD measures the organic pollution of water

A. A & B

B. B & C

C. C & A

D. A,B & C

Answer: D



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6. Identify the correct decreasing order of the following with respect to altitude from atmosphere

(I) Troposphere (II) Mesosphere

(III) Thermosphere

A. II, III, I

B. III,II,I

C. I,II,III

D. I,III,II

Answer: B



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7. The correct increasing order of the following with respect to temperature range

I) Troposphere

II) Stratosphere

III) Thermosphere

A. II,I,III

B. II,III,I

C. III,I,II

D. I,II,III

Answer: D

Exercise li A C W Air Pollution

1. Very toxic gas which causes headache, visual difficulty, paralysis and even death in the human beings is

(A) CO_2 (B) O_3 (C) CO

A. A & B

B. A

C. C

D. B

Answer: C

2. When rain is accompanied by a thunderstorm, the collected rain water will have a pH value

- A. Slightly higher than that of rain water without thunderstorm
- B. Slightly higher than that when the thunderstorm is not there
- C. Not influenced by occurrence of thunderstorm
- D. Depends upon the amount of dust in air

Answer: A



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3. Lung disease are four times more in Urban areas than Rural area. This is due to the presence of which

A. SO_2

B. CO_2

C. N_2

D. Water vapour

Answer: A



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4. Diesel vehicles pollute the environment largely through

(A) CO (B) NO_x (C) Particulates

A. A & B

B. B & C

C. C & A

D. A,B & C

Answer: D



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5. Green house effect is mainly due to increase in the levels of this substance in the atmosphere

A. O_2

B. CO

C. CO_2

D. N_2

Answer: C

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6. The life and appearance of the historic monuments like Tajmahal are likely to be damaged by the presence of

A. Hydrocarbons

B. Excess of SO_2

C. CFC

D. Cl_2

Answer: B

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7. If CCl_3F is present in the stratosphere, it will react with

(A) Ozone (B) N_2 (C) CO_2

A. A

B. B

C. A & B

D. C & A

Answer: A



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8. Which one of the following statement is false ?

A. O_3 layer is destroyed by CFC_s

B. O_3 involved in photochemical smog

C. A product of photochemical smog is CO_2

D. Smog reduces visibility

Answer: C



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9. Peeling of ozone umbrella is due to

(I) PAN (II) Freons (III) CO_2 (IV) NO

The correct answer is

A. I,II

B. II,III

C. II,IV

D. III,IV

Answer: C



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10. The proposal to ban supersonic jet planes in Russia is because

- (A) They travel with very high speed
- (B) It is dangerous to travel in them
- (C) Their exhaust gases react with ozone

A. A & B

B. B

C. C

D. A

Answer: C

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11. Chlorofluoro carbons are effective scavengers for ozone due to

- A. Photolytic reaction of O_2 producing Cl radicals
- B. Photolytic decomposition of O_2 producing O_3
- C. Photolytic decomposition of O_3 producing O_3
- D. Photolytic production of oxides of nitrogen

Answer: C

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12. Water of often treated with chlorine to

- A. Increase oxygen content

B. Kill germs

C. Remove suspended particles

D. Remove hardness

Answer: B



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13. Eutrophication causes reduction in

A) Nutrients

B) Dissolved salts

C) Dissolved oxygen

A. A

B. B & C

C. C

D. A,B, & C

Answer: C



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14. Which of the following is /are weedicids ?

A) Sodium chlorate

B) DDT

C) Sodium arsenate

D) BHC

A. A,C

B. A,B

C. A,D

D. B,D

Answer: A



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Exercise II A H W Environmental Segments Definitions Terms

1. Which of the following statements are correct ?

A) Sink for CO is ocean

B) Green house effect Causes lowering of temperature of earth's surface

C) To control CO emission by automobiles, usually catalytic converters fitted into exhaust pipes

D) H_2SO_4 herbicides and insecticides form mists

A. A,B

B. C,D

C. B,D

D. A,D

Answer: B



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2. Threshold limit values of X, Y, and Z pollutants are 9 ppm, 10 ppm and 15 ppm. The correct answer is/are

- (A) X is more toxic than Y
- (B) X is less toxic than Y
- (C) Z is less toxic than X and Y
- (D) Y is more toxic than X and Z

The correct answer is

A. A,B

B. B,C

C. A,C

D. A,D

Answer: C



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3. Which of the following indicates high level of pollution of water?

(A) High *DO* value (B) High *COD* value

(C) High *BOD* value (D) High *TLV*

The correct answer is

A. C,D

B. B,C

C. B,C,D

D. A,C

Answer: B



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Excercise li A H W Air Pollution

1. Identify the wrong statement in the following :

A. Chlorofluorocarbons are responsible for ozone layer depletion.

B. Green house effect is responsible for global wanning

C. Ozone layer pennit UV radiation from the sun to reach the earth

D. Acid rain is the mostly because of oxides of nitrogen and sulphur.

Answer: C



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2. Important sinks for CO_2 are

(A) Oceans (B) Plants

(C) Microorganisms

the correct answer is

A. A

B. A,B

C. A,B,C

D. A,C

Answer: B



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3. Which of the following statements are con-ect

A) Carbamates are nerve toxins

B) diethanol amine is an environment friendly herbicide

C) Fly ash is a contaminent in air due to thermal power plants and steel industry

D) Haemoglobin of the blood forms catboxy haemoglobin with CO

The correct answer is

A. A,B,C

B. B,C,D

C. A,B,D

D. A,B,C,D

Answer: D



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4. The acceptable level of carbon monoxide gas (CO) in the atmosphere in ppm level is

A. 9

B. 250

C. 49

D. 850

Answer: A



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5. The consequences of global warming are

- A) Increase in average temperature of the earth
- B) Melting of Himalayan glaciers
- C) Increased biochemical oxygen demand of natural water
- D) Eutrophication of water bodies

The correct answer is

A. A,D

B. A,C

C. A,B

D. A,B,C

Answer: C



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6. Green house effect is caused by

(i) Acculation of O_2 in the atmosphere

(ii) Depletion of O_3 layer

(iii) Accumulation of CO_2 in the atmosphere

A. i & ii

B. i

C. iii

D. iii & i

Answer: C



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7. Consider the following observation.

(I) pH of rain water is 5.6

(II) Amount of CO_2 in the atmosphere is 0.03 %

(III) Biochemical oxygen demand is 10 ppm

(IV) Eutrophication

A. a,b

B. a,c,d

C. a,d

D. a,b,c,d

Answer: B



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8. The acid responsible to make rain water acidic is

a) H_3PO_4

b) H_2CO_3

c) HNO_3

d) H_2SO_4

The correct answer is

A. a,b

B. a,c

C. b,c,d

D. a,c,d

Answer: C



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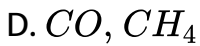
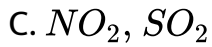
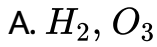
9. Which of the following gases in the atmosphere is/are responsible for acid rains?

1. Oxides of sulphur

2. Oxides of nitrogen

3. Oxides of carbon

Select the correct answer using the Code given below.

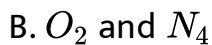
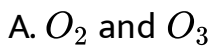


Answer: C



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10. The smog is essentially caused by the presence of



C. Oxides of sulphur and nitrogen

D. CO_2 and SO_3

Answer: B



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11. Which of the following is/are responsible for photochemical smog formation?

(A) CO_2 (B) SO_2 (C) NO

(D) hydrocarbons. The correct answer is

A. A,B

B. B,C

C. C,D

D. A,D

Answer: C



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12. Formation of London smog takes place in

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

Answer: D



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13. Identify the incorrect statement from the following

- A. Oxides of nitrogen in the atmosphere can cause depletion of ozone layer
- B. Ozone absorbs the intense ultraviolet radiations of the sun.
- C. Depletion of ozone layer is because of its chemical reactions with chlorofluoro alkanes
- D. Ozone absorbs infrared radiations.

Answer: D



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14. Cataract and skin cancer are caused by

- A. Depletion of nitric oxide

B. Depletion of ozone layer

C. Increase in methane

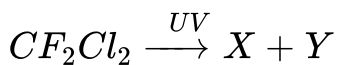
D. Depletion of nitrous oxide

Answer: B



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15. What are X and Y in the following reaction?



A. CF_2Cl , Cl

B. C_2F_4 , Cl_2

C. $CFCl_2$, F

D. CCl_2 , F_2

Answer: A



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Exercise Ii A H W Water Pollution

1. How many of the following in drinking water below 30 ppm do not cause any effect on the body as per international standards of water?

Pb^{2+} , Hg^{2+} , Mn^{2+} , Cd^{2+} , Cl^{-} , NO_3^{-} , SO_4^{2-} , Ca^{2+} , Mg^{2+}

A. 5

B. 2

C. 3

D. 6

Answer: A



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2. Agricultural outflows contains phosphate fertilizers leads to

- (A) Enhanced growth of algae in rivers
- (B) Decrease in the amount of dissolved oxygen in water
- (C) Increase in fish pollution

The correct answer is

- A. A,B
- B. C
- C. A,C
- D. A,B,C

Answer: A

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3. It is preferred to bleach paper using

A. H_2O_2 + catalyst

B. NaOCl

C. SO_2

D. Cl_2

Answer: A

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4. Better medium of chemical reaction according to green chemistry is

A. Water

B. Ether

C. Arnmonia

D. Benzene

Answer: A



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Exercise li B Matching Type Questions

1. List-I A)TLV B)COD C)DO D)BOD List-II 1) Oxygen required to oxidiseorganic substance present in polluted water. 2) Oxygen used by microoriganisms present in water for S days. 3) Oxygen present in water in dissolved state. 4) Permissible level of

pollutant that can be present in amine. 5) Oxygen that is present in atmosphere. The correct match is

A. $A \ B \ C \ D$
2 3 5 1

B. $A \ B \ C \ D$
3 4 2 5

C. $A \ B \ C \ D$
4 1 3 2

D. $A \ B \ C \ D$
1 2 4 3

Answer: C



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- | | List- I | List -II |
|----|-------------------------|------------------|
| 2. | (A) Green house gases | (1) CO |
| | (B) Silent killer gas | (2) CO_2 |
| | (C) Photo chemical smog | (3) CFC_s |
| | (D) Acid rains | (4) O_3NO_2 |
| | | (5) $N_2O_3SO_3$ |

The correct match is

- A. $\begin{matrix} A & B & C & D \\ 2 & 1 & 4 & 5 \end{matrix}$
- B. $\begin{matrix} A & b & C & D \\ 3 & 2 & 5 & 1 \end{matrix}$
- C. $\begin{matrix} A & B & C & D \\ 4 & 3 & 1 & 2 \end{matrix}$
- D. $\begin{matrix} A & B & C & D \\ 1 & 2 & 4 & 3 \end{matrix}$

Answer: A



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3.

List – I

- A) Freous
 B) Ozone
 C) Carbon dioxide
 D) Sulphur dioxide

List – II

- 1) Rise in temperature of earths surface
 2) Forms holes in ozones layer
 3) Protects life from UV raidation
 4) Increase in fluoride ion concentration
 5) Acid rain

The correct match is

- A. $\begin{matrix} A & B & C & D \\ 2 & 3 & 1 & 5 \end{matrix}$

- B.

<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>
3	4	5	2
- C.

<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>
1	3	4	2
- D.

<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>
4	2	1	3

Answer: A



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4. List-I

A) Green house effect

B) Acidrain

C) Depiction of ozone layer

D) Photo chemical smog

List-II

1) Cause skincancer, cataract

2) Corrodes marble, painted surfaces.

3) Melting of polar ice caps

4) Cause irritation of eyes and mucous membrane.

5) Causes headache and decreased vision. The correct match is

A. (*A, B, C, D*), (2, 3, 4, 5)

B.

	<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>
	3	2	1	4

C.

	<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>
	1	3	2	5

D.

	<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>
	4	2	3	1

Answer: B



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5. List-I

A) Atmosphere

B) Hydrosphere

C) Lithosphere

D) Biosphere

List-II

- 1) Living organisms
- 2) Rocks, soil etc
- 3) The region of water
- 4) Gaseous layer
- 5) Co layer

The correct match is

A.

<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>
3	5	2	1

B.

<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>
2	3	4	5

C.

<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>
1	2	5	3

D.

<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>
4	3	2	1

Answer: D



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List - I

(A) Troposphere

6. (B) Stratosphere

(C) Mesosphere

(D) Thermosphere

List - II

(i) Prevents UV rays coming to earth

(ii) Ionization of gases

(iii) Maintenance of heat balance

(iv) Non propagation of sound waves

The correct match is

A.

<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>
3	1	4	2

B.

<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>
3	1	4	2

C.

<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>
4	2	3	1

D.

<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>
2	3	4	5

Answer: A



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7. Match the following

List I

- A) Herbicide
- B) Photochemical
- C) London smog
- D) Carcinogenic substance

List II

- I) Oxidizing nature
- II) Benzopyrene smog
- III) $NaClO_3$
- iv) Reducing nature

The correct match is

A.

<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>
<i>I</i>	<i>III</i>	<i>IV</i>	<i>II</i>

B.

<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>
<i>III</i>	<i>I</i>	<i>IV</i>	<i>II</i>

C.

<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>
<i>III</i>	<i>I</i>	<i>II</i>	<i>IV</i>

D.

<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>
<i>II</i>	<i>III</i>	<i>I</i>	<i>IV</i>

Answer: B



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8. Match the following

List I



List II

I) Skin cancer

II) Sink of CO_2

III) Speciation

IV) Determination of COD

The correct match is

A. $\begin{matrix} A & B & C & D \\ IV & II & I & III \end{matrix}$

B. $\begin{matrix} A & B & C & D \\ IV & III & I & II \end{matrix}$

C. $(A, B, C, D), (I, III, II, IV) : \}$

D. $\begin{matrix} A & B & C & D \\ IV & III & II & I \end{matrix}$

Answer: B



9. Match the following

List I

- A) Biodegradable
- B) Non-biodegradable
- C) Viable particulates
- D) Non-viable particulates

List-II

- I) Mist pollutant
- II) Algae pollutant
- III) Domestic sewage
- IV) Plastic materials

The correct match is

A. $\begin{matrix} A & B & C & D \\ III & IV & II & I \end{matrix}$

B. $\begin{matrix} A & B & C & D \\ I & II & IV & III \end{matrix}$

C. $\begin{cases} A & B & C & D \\ IV & III & I & II \end{cases}$

D. $\begin{matrix} A & B & C & D \\ III & IV & I & II \end{matrix}$

Answer: A



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10. Match the following

List I

A) Major constituents of air

B) Minor constituents of air

C) Trace constituents of air

D) Green house gases

List II I) N_2 , O_2 and water vapour

II) Ne, He, Kr, N_2O , H_2 are

III) Ar and CO_2 , IV) CO_2 , CH_4

The correct match is

A.

<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>
<i>I</i>	<i>II</i>	<i>III</i>	<i>IV</i>

B.

<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>
<i>I</i>	<i>III</i>	<i>II</i>	<i>IV</i>

C.

<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>
<i>II</i>	<i>III</i>	<i>I</i>	<i>IV</i>

D.

<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>
<i>III</i>	<i>II</i>	<i>I</i>	<i>IV</i>

Answer: B



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11. Match the following

List I

A) NO_3^- ion in drinking water greater than 50 ppm causes

B) SO_4^{2-} ion greater than 500 ppm causes

C) Mercury poison causes

D) Domestic sewage causes

List-II

I) Depletion of dissolved oxygen

II) Minimata disease

III) Laxative effect

IV) Blue baby syndrome

The correct match is

A. $\begin{matrix} A & B & C & D \\ I & II & III & IV \end{matrix}$

B. $\begin{matrix} A & B & C & D \\ IV & III & I & II \end{matrix}$

C. $\begin{matrix} A & B & C & D \\ III & IV & II & I \end{matrix}$

D. $\begin{matrix} A & B & C & D \\ IV & III & II & I \end{matrix}$

Answer: D



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12. Match the following

List - I

A) SO_2 , NO_3 in air

B) Excess of phosphates in water ponds

(C)

Excess of F^- ions in drinking water

D) Excess of organic pollutants

List II

I) Bones and teeth get effected

II) pH of rainwater decreases

III) DO content decreases

IV) Eutrophication

The correct match is

A. $A \quad B \quad C \quad D$
 $IV \quad III \quad I \quad II$

B. $A \quad B \quad C \quad D$
 $IV \quad II \quad I \quad III$

C. $A \quad B \quad C \quad D$
 $II \quad IV \quad I \quad III$

- D.

<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>
<i>IV</i>	<i>I</i>	<i>III</i>	<i>II</i>

Answer: C



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13. Match the following ,

List I

A) Primary pollutant

B) contaminant in

C) Receptor to smoke

D) Sink to dried

List II

List II

I) Human eyes

II) SO_2 Bhopal tragedy

III) Microorganisms of automobiles

IV) Methyl leaves Isocyanate and garbage

The correct match is

- A. $A \ B \ C \ D$
 $II \ III \ I \ IV$
- B. $A \ B \ C \ D$
 $II \ IV \ I \ III$
- C. $A \ B \ C \ D$
 $II \ IV \ I \ III$
- D. $A \ B \ C \ D$
 $III \ IV \ I \ II$

Answer: C



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14. Match the following

List I

A) Green house effect

B) $HNO_3 + H_2SO_4$

D) Eutrophication

List II

I) Over nutrition

II) Water pollution

IV) Air pollution

The correct match is

- A. $A \quad B \quad C \quad D$
 $II \quad III \quad I \quad IV$
- B. $A \quad B \quad C \quad D$
 $IV \quad III \quad II \quad I$
- C. $A \quad B \quad C \quad D$
 $I \quad III \quad II \quad IV$
- D. $A \quad B \quad C \quad D$
 $II \quad III \quad IV \quad I$

Answer: B



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Exercices Iii

1. Green chemistry means such reactions which

A. Study the reactions in plants

B. Produce colour during reactions

C. Reduce the use and production of hazardous chemicals

D. Are related to the depletion of ozone layers

Answer: A

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2. Assertion : London smog is oxidising in nature .

Reason : London smog contains O_3 , NO_2 and Hydrocarbons .

A. Both assertion and reason are true and Reason is the correct explanation of Assertion

B. Both assertion and reason are true but Reason is not correct explanation of Assertion

C. Assertion is true but Reason is false

D. Assertion is false but Reason is true

Answer: D



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3. Which one of the following statement is not true?

- A. Oxide of sulphur, nitrogen and carbon are the most wide spread air pollutant
- B. pH of drinking water should be between 5.5 -9.5
- C. Concentration of BOD below 6 ppm is good for the growth of fish
- D. Clean water would have a BOD value of less than 5 ppm.

Answer: C



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4. Which one of the following statements regarding photochemical smog is not correct?

A. Photochemical smog is formed through photochemical reaction involving solar energy

B. Photochemical smog does not cause irritation in eyes and throat

C. Carbon monoxide does not play role in photochemical smog formation

D. Photochemical smog is an oxidising agent in character

Answer: C



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5. The basic component of smog is:

A. PAN

B. PBN

C. NO_2

D. All of these

Answer: D



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6. The gas leaked from a storage tank of the Union Carbide plant in Bhopal gas tragedy was :

A. Ammonia

B. Phosgene

C. Methylisocyanate

D. Methylaminc

Answer: C



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7. Roasting of sulphides gives the gas X as a by product. This is a colourless gas with choking smell of burnt sulphur and causes great damage to respiratory organs as a result of acid rain. Its aqueous solution is acidic, acts as reducing agent and its acid has never been isolated. The gas X is :-

A. SO_2

B. CO_2

C. SO_3

D. H_2S

Answer: A

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8. Which one of the following is not a common component of photochemical smog ?

A. Ozonc

B. Acrolein

C. Peroxyacetyl nitrate

D. Chlorofluorocarbons

Answer: A

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9. Nitrogen dioxide and sulphur dioxide have some properties in common, which property is shown by one of these compounds, but not by the other?

- A. Form's acid rain '
- B. Is a reducing agent
- C. Is soluble in water
- D. Is used as a food preservation

Answer: D



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**Exercise Iv Ncert Exemplar Questions Multiple Choice Questinos
Type I**

1. Which of the following gases is not a greenhouse gas?

A. CO

B. O_3

C. CH_4

D. H_2O vapour

Answer: 1



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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

B. O_3

C. SO_2

D. Unsaturated hydrocarbon

Answer:



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

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

B. Produced in cold and humid climate.

C. It contains compounds for reducing nature.

D. It contains smoke, fog 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 5 ppm indicates a water sample to be

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

Answer:



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5. Which of the following statements is wrong ?

- A. Ozone is not responsible for green house effect .
- B. Ozone can oxidise sulphur dioxide present in the atmosphere to sulphur trioxide.
- C. Ozone is produced in upper stratosphere by the action of UV rays on oxygen.
- D.

Answer:

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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 mosquitoes.
- B. Increase in the amount of dissolved oxygen
- C. Decrease in the amount of dissolved oxygen in water
- D. Clogging of gills by mud

Answer: 3



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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 agents

C. It can be controlled by controlling the release of NO_2 hydrocarbons , ozone etc.

D. Plantation of some plants like pinus helps in controlling photochemical smog.

Answer:



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8. The gaseous envelope around the earth is known as atmosphere. The lowest layer of this is extended upto 10 km from sea level , this layer is

A. Stratosphere

B. Troposphere

C. Mesosphere

D. Hydrosphere

Answer:



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

Answer:



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10. The pollutants which come directly in the air from sources are called primary pollutants. Primary pollutants are sometimes converted into secondary pollutants. Which of the following belongs to secondary air pollutants ?

A. CO

B. Hydrocarbon

C. Peroxyacetyl nitrate

D. NO

Answer:



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11. Which of the following statements is correct ?

- A. Ozone hole is hole formed in stratosphere from which ozone oozes out .
- B. Ozone hole is a hole formed in troposphere from which ozone oozes out .
- C. Ozone hole is thinning of ozone layer of stratosphere at some places.
- D. Ozone hole means vanishing of ozone layer around the earth completely.

Answer:



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

a) If 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 neatly storing substances

A. If possible making use of soaps made of vegetable oil 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 or diesel based vehicles.

D. Using plastic cans for neatly storing substances.

Answer:



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Exercise Iv Ncert Exemplar Questions Multiple Choice Questions Type Ii

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

- A. pH of rain water is 5.6
- B. amount of carbodioxide in the atmosphere is 0.03%
- C. biochemical oxygen demad 10 ppm
- D. Eutrophication

Answer:



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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. decreases in amount of dissolved oxygen in water.
- C. deposition of calcium phosphate.
- D. Increase in fish population.

Answer:

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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:



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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) increased biochemical oxygen demand.

A. increase :in average temperature of the earth.

B. melting ofHimalayan Glanciers.

C. Increased biochemical oxygen demand

D. Eutrophication

Answer:



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Excercise Iv Matching Type

1. Match the terns given in Coulmn I with the compounds given in Column II

Column I**Column II**

i) Acid rain

a) $CHCl_2 - CHF_2$

ii) Photochemical smog

b) CO

iii) Combination with

c) CO_2

hemoglobin

iv) Depletion of ozone

d) SO_2

layer

e) Unsaturated hydrocarbons

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2. Match the terms given in Column I with the compounds given in Column II

Column I

- i) Oxides of sulphur
- ii) Nitrogen dioxide
- iii) Carbon dioxide
- iv) Nitrate in drinking water
- v) Lead

Column II

- a) Global warming
- b) Damage to kidney
- c) 'Blue baby' syndrome
- d) Respiratory diseases
- e) Red haze in traffic and congested areas



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3. Match the terms given in Column I with the compounds given in Column II

Column II.

Column I(Activity)

Column II(Effect)

- | | |
|--|---|
| i) Releasing gases to the atmosphere after burning waste material containing sulphur | a) Water pollution |
| ii) Using carbamates as pesticides | b) Photochemical smog, damage to plant life, corrosion to building material, induce breathing problems, water pollution |
| iii) Using synthetic detergents for washing clothes | c) Damaging ozone layer |
| iv) Releasing gases produced by automobile and factories in the atmosphere. | d) May cause nerve diseases in human |
| v) Using Chlorofluorocarbon compounds for cleaning computer parts | e) Classical acid rain, water pollution, induce breathing problems, damage to buildings, corrosion of metals. |



4. Match the terms given in Column I with the compounds given in Column II

Column I	Column II
i) Phosphate fertilisers in water	a) BOD level of water increases
ii) Methane in air	b) Acid rain
iii) Synthetic detergents in water	c) Global warming
iv) Nitrogen oxide in air	d) Eutrophication



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Exercise Iv Assertion Reason Type Questions

1. Assertion (A) : Ionosphere contains gases in the ionized form which form the basis for wireless communication.

Reason (R) : These ions reflect back the radio waves to the earth.

- A. Both A and R are true and R is the correct explanation of A.
- B. Both A and R are true but R is not correct explanation of A
- C. A is true and R is false.
- D. A is false and R is true.

Answer: A

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2. Assertion (A) : Smaller particles (size < 5 microns) cause fibrosis of the lung lining

Reason (R) : They are more likely to penetrate into the lungs.

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3. Assertion (A) : The medium which is affected by the pollutant is receptor

Reason (R) : The medium which reacts with pollutants is sink.

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4. A : The lower the concentration of DO the more polluted is the water sample.

R : Oxygen is consumed by microbes for the decomposition of organic matter present in water.

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5. A : Atmosphere plays an important role in maintaining the heat balance on earth.

R : Atmosphere absorbs a portion of electromagnetic radiation coming from the sun and transmits near UV, visible and near IR radiation.

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6. Assertion (A) : Excess amount of CO , in air is responsible for green house effect.

Reason (R) : CO_2 is largely produced in respiratory functions.

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7. Assertion (A) : Alkylated mercury is more toxic than mercury.

Reason (R) : The toxicity of the pollutant depends upon the nature of speciation.

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8. Green house effect is



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9. Assertion (A) : Countries like Netherlands, Bangladesh and Maldives face danger of getting submerged.

Reason (R) : Due to global warming, polar ice caps melt, increasing the level of sea water.



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10. A: Acid rain reduces the fertility of the soil,

R: Acid rain has a corroning effect on marble buildings.



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11. Assertion (A) : Acid Rain water normally has a P^H of ≤ 5.6 .

Reason (R) : This is due to the presence of H_2SO_4 and HNO_3 produced from oxides of sulphur and nitrogen.

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12. Assertion (A) : The oxides of nitrogen and sulphur combine with rain water and come down as acid rain.

Reason (R) : Acid rains cause depletion of ozone layer.

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13. Assertion: The pH of acid rain is less than 5.6

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



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14. Assertion (A) : Acid rains have been reported in some places which are far away from the places where industries are located.

Reason (R) : Rain clouds move from the industrial areas to the other areas due to the blowing of wind

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15. Assertion (A) : Aldehydes are one of the constituents of photochemical smog.

Reason (R) : Aldehydes are produced by photochemical oxidation of hydrocarbons by ozone.

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16. A: Fluorosis results if F^- ion concentration exceeds 10 ppm in drinking water.

R : Nalgonda technique is a cheap method for removing F^- ions from drinking water.

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17. Assertion: Excessive use of chlorinated synthetic pesticides causes soil and water pollution.

Reason: Such pesticides are non-biodegradable.

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18. 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.



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Exercise Iv Ncert Exemplar Questions

1. A: Green house effect was observed in houses used and these are made of green glass.

R: Green house name has been given because glass houses are made of green glass



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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)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 A. c)Both A and R are not correct. d)A is not correct but R is correct.

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3. Assertion: Photochemical smog is oxidising in nature.

Reason: Photochemical smog contains NO_2 and O_3 which are formed during the sequence of reactions.

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

Reson (R) : It is largely produced by respiratory function of

animals and plants. 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 A. c)Both A and R are not correct. d)A is not correct but R is correct.



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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)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 A. c)Both A and R are not correct. d)A is not correct but R is correct.



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

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