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Q-1 - 35784606

The zone of atmosphere in which the ozone layer is present is called:

- (A) ionosphere
- (B) mesosphere
- (C) stratosphere
- (D) troposphere

CORRECT ANSWER: C

SOLUTION:

The ozone layer is mainly found in the lower portion of

stratosphere, i.e., approximately 20-30 km above the earth, though its thickness varies seasonally and geographically, ozone layer acts as a shield absorbing UV rays from the sun.

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Q-2 - 41234148

[" Find the sum of the following APs: "],[qquad " (i) "2,7,12,...," to "10" terms."]

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Q-3 - 41530616

Atomic bomb was used during world war II in

(A) 1941

(B) 1939

(C) 1943

(D) 1945

---

CORRECT ANSWER: D

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Q-4 - 35784620

Which one of the following pairs of gases are the major cause of 'Greenhouse effect?

(A)  $CO_2$  and  $CO$

(B) CFCs and  $SO_2$

(C)  $CO_2$  and  $N_2O$

(D)  $CO_2$  and  $O_3$

---

CORRECT ANSWER: C

---

SOLUTION:

The phenomenon of keeping the earth's surface warm is due to the presence of certain gases in the atmosphere that are called greenhouse gases. The name is based after a similar warmer interior in a glass-enclosed greenhouse where glass panels,  $CO_2$  and water vapour allow the solar radiations to enter but prevent the escape of long wave heat radiations.  $CO_2$  and  $N_2O$  are the major cause of 'greenhouse effect'.  $CO_2$  contributes 60% of total global warming.  $N_2O$  contributes 6% to greenhouse effect.

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Eutrophication refers to:

- (A) High production in an aquatic ecosystem
  - (B) Low production in an aquatic ecosystem
  - (C) Low production in a terrestrial
  - (D) Stable production in a terrestrial ecosystem
- 

CORRECT ANSWER: A

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Q-6 - 41530636

A pollutants that causes irritation in eyes, throat and nose

- (A) CO
- (B)  $SO_2$
- (C)  $CH_4$

(D) Chlorofluorocarbons.

---

CORRECT ANSWER: B

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Q-7 - 35784617

[" 5.Represent " $\sqrt{3.2}$ " geometrically on the number line."],["  
6.Represent " $\sqrt{7.28}$ " geometrically on the number line."]

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Q-8 - 35784689

If there was no carbon dioxide in the Earth's atmosphere, the  
temperature of Earth's surface would be :

(A) same as present

(B) less than the present

(C) higher than the present

(D) dependent on the amount of oxygen in the atmosphere

---

CORRECT ANSWER: B

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SOLUTION:

$CO_2$  layer around earth surface acts as insulators and does not allow heat of the earth to escape into space thus keeping the earth warm. It is an important constituent of green house gases present in earth's atmosphere. The percentage of  $CO_2$  in causing global warming is 60%.

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Q-9 - 41530614

Domestic waste is

(A) Effluent

(B) Biodegradable

(C) Nonbiodegradable

(D) Air pollutant

---

**CORRECT ANSWER: B**

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Q-10 - 35784604

The UN Conference of Parties on climate change in the year 2012 was held at:

(A) Durban

(B) Doha

(C) Lima



(D) Warsaw

---

CORRECT ANSWER: B

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SOLUTION:

The UN conference of Parties (COP-18) was the UN framework convention on climate change (UNFCCC) was held in Doha, Qatar from 26th Nov. to 8th Dec, 2012.

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Q-11 - 35784686

Carbon monoxide is pollutant as it:

(A) it reacts with  $O_2$

(B) it inhibits glycolysis

(C) it reacts with haemoglobin

(D) it makes nervous system inactive

---

CORRECT ANSWER: C

---

SOLUTION:

Carbon monoxide, (CO) when inhaled, combines with blood haemoglobin to form carboxy haemoglobin at a rate 210 times faster than the oxygen forms oxyhaemoglobin. This, respiration is impaired.

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Q-12 - 41231427

Which is not a control measure to reduce particulate matter in environment?

(A) Cyclonic separators

(B) Scrubbers

(C) Effluent treatment

(D) Electrostatic precipitator

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CORRECT ANSWER: C

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Q-13 - 35784597

The highest DDT concentration in aquatic food chain shall occur in:

(A) phytoplankton

(B) seagull

(C) crab

(D) eel

---

CORRECT ANSWER: B

---

SOLUTION:

DDT is a toxic substance which gets concentrated subsequently in a food chain of an aquatic ecosystem in the following manner

Phytoplanktons  
(0.04 ppm)

→ Eel → Crab  
(0.5 ppm) (2 ppm)

→ Seagull  
(25 ppm)

Thus, the animal or organism acquiring the highest position in a food chain would have the highest DDT concentration (here seagull). This process is known as biological magnification or biomagnification.

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Q-14 - 41231408

Pollutant responsible for causing phaeophytization is

(A)  $SO_2$

(B)  $NO_x$

(C)  $CO_2$

(D) Aeroallergens

---

CORRECT ANSWER: A

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Q-15 - 35784602

Acid rain is caused by increase in the atmospheric concentration of:

(A)  $SO_2$  and  $NO_2$

(B)  $SO_3$  and  $CO$

(C)  $CO_2$  and  $CO$

(D)  $O_3$  and dust

---

CORRECT ANSWER: A

---

SOLUTION:

Acid rain is caused by increase in the atmospheric concentration of  $SO_2$  and  $NO_2$ . These mix with water vapour to form sulphuric acid ( $H_2SO_4$ ) and nitric acid ( $HNO_3$ ) respectively which falls on earth in the form of acid rain.

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Q-16 - 41231428

A chemical weed in troposphere and protectant in stratosphere is

(A)  $CH_4$

(B)  $O_3$

(C) CFC

(D)  $NO_2$

---

CORRECT ANSWER: C

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Q-17 - 41231428

A chemical weed in troposphere and protectant in stratosphere is

(A)  $CH_4$

(B)  $O_3$

(C) CFC

(D)  $NO_2$

---

CORRECT ANSWER: C

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Q-18 - 41530597

Lead pollution in Indian cities had been mainly due to

- (A) lead pencils
  - (B) batteries
  - (C) automobiles
  - (D) electronic gadgets.
- 

CORRECT ANSWER: C

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Q-19 - 41231429

ganga action plan for controlling pollution in ganga started in

- (A) 1985
- (B) 1981
- (C) 1987



(D) 1989

---

CORRECT ANSWER: A

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Q-20 - 35784683

Which important greenhouse gas other than methane is linerated from agriculture fields?

(A) Arsine

(B) Sulphur dioxide

(C) Ammonia

(D) Nitrous oxide

---

CORRECT ANSWER: D

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SOLUTION:

In addition to  $CO_2$ , some other gases also contribute to greenhouse effect. These include ozone, CFCs, nitrous oxide  $N_2O$  and even methane ( $CH_4$ ). Nitrous oxide is produced by denitrifying bacteria acting on artificial fertilisers applied to poorly aerated soils.

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Q-21 - 41530611

A persistent insecticide is

- (A) Organophosphates
- (B) carbamates
- (C) Thiocarbamates
- (D) Chlorinated hydrocarbons.

---

CORRECT ANSWER: D

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Q-22 - 35784600

Increase in concentration of the toxicant at successive trophic levels is known as

- (A) biomagnification
- (B) biodeterioration
- (C) biotransformation
- (D) biogeochemical cycling

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CORRECT ANSWER: A

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SOLUTION:

Biomagnification is the sequence of processes in an ecosystem by which higher concentration of particular toxicant, such as the pesticide or heavy metal are

reached in higher organisms of the food chain, generally through a series of prey-predator relationships.

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Q-23 - 41530602

Maximum atmospheric  $NO_2$  pollution is found in

(A) Baroda/Vadodra

(B) Chennai

(C) Nagpur

(D) Mumbai.

---

CORRECT ANSWER: A

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Q-24 - 41231409

Greenhouse gases are

- (A) Absorbers of long-wave radiations from the earth
  - (B) Transparent to both solar radiations and long-wave radiations from the earth
  - (C) Absorbers of solar radiations for warming the atmosphere
  - (D) Transparent to emissions from the earth for passage into outer space
- 

CORRECT ANSWER: A

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Q-25 - 35784593

Which one of the following statement is not valid for aerosols ?

- (A) They are harmful to human health
  - (B) They alter rainfall and monsoon patterns
  - (C) They cause increased agricultural productivity
  - (D) They have negative impact on agricultural land
- 

CORRECT ANSWER: C

---

SOLUTION:

Aerosol refers to the suspended particulate matter of less than  $1\mu m$  size. These are kind of air pollutants that are suspended in our atmosphere. They have a measurable effect on climate change as they can modify the amount of energy reflected by clouds. As a result, they can change the atmospheric circulation patterns and affect agriculture negatively. These also affect human health by causing breathing problems.

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Q-26 - 35784694

The supersonic jets cause pollution by thinning of:

(A)  $CO_2$  layer

(B)  $SO_2$  layer

(C)  $O_2$  layer

(D)  $O_3$  layer

---

CORRECT ANSWER: D

---

SOLUTION:

Ozone layer is found in the stratosphere. It protects us from the harmful UV radiations coming from the sun. The supersonic aircrafts flying at stratospheric heights cause major disturbances in ozone level due to release of CFCs

which reacts with  $O_3$  present there, thus cause thinning of  $O_3$  layer.

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Q-27 - 41530594

Aerosol is a system of colloidal particles having a size of

- (A)  $5\mu m$
- (B)  $1 - 2\mu m$
- (C) less than  $100\mu m$
- (D) more than  $10\mu m$

---

CORRECT ANSWER: C

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Q-28 - 35784623



Secondary sewage treatment is mainly a

(A) mechanical process

(B) chemical process

(C) biological process

(D) physical process

---

CORRECT ANSWER: C

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SOLUTION:

In secondary or biological treatment of municipal waste, the organic matter is decomposed with the help of microbes. Decomposition of organic matter occurs by one of the three methods-water hyacinth pond, trickling filter method and activated sludge method. After decomposition the treated water is sterilised through chlorination and recycled.

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Q-29 - 41231500

Sewage water can be purified for recycling with action of :

- (A) Aquatic plant
  - (B) Micro organism
  - (C) Penicillin
  - (D) Fishes
- 

**CORRECT ANSWER: B**

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Q-30 - 35784637

Steps taken by the Government of India to control air pollution include

- (A) compulsory mixing of 20% ethyl alcohol with petrol and 20% biodiesel with diesel
- (B) compulsory PUC (Pollution Under Control) certification of petrol driven vehicles, which tests for carbon monoxide and hydrocarbons
- (C) permission to use only pure diesel with a maximum of 500 ppm sulphur as fuel for vehicles
- (D) use of non-polluting Compressed Natural Gas (CNG) only as fuel by all buses and trucks
- 

**CORRECT ANSWER: B**

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**SOLUTION:**

Government of India have taken many steps to control air pollution. Out of which one includes compulsory PUC (Pollution Under Control) certification of petrol driven

vehicles, which test for carbon monoxide and hydrocarbons emissions of the vehicles.

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Q-31 - 41530589

Jet aeroplanes releases pollutants in air called

- (A) smog
- (B) photo-chemical oxidants
- (C) Aerosols
- (D) Algae and bacteria.

---

CORRECT ANSWER: C

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Q-32 - 35784626

Which one of the following statements is incorrect regarding Bhopal gas tragedy ?

- (A) Thousands of human being died
  - (B) Radioactive fall out engulfed Bhopal
  - (C) It took place in the night of December 23, 1984
  - (D) Methyl isocyanate gas leakage took place
- 

CORRECT ANSWER: D

---

SOLUTION:

Bhopal gas tragedy (Bhopal disaster) one of the world's worst industrial catastrophes. It occurred on the night of December 23, 1984 at the Union Carbide India Limited (UCIL) pesticide plant in Bhopal, Madhya Pradesh.

A leak of methyl isocyanate gas and other chemicals from the plant resulted in the exposure of hundreds of

thousands of people. The official immediate death toll was 2,259 and the government of Madhya Pradesh has confirmed a total of 3,787 deaths related to the gas releases.

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Q-33 - 41530633

Primary pollutants is the one, which

- (A) Enters environment directly
- (B) Is formed naturally
- (C) Is byproducts of reactions between two or more pollutants components
- (D) Is anthropogenic .

---

CORRECT ANSWER: A

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Q-34 - 41231425

Brown air and gray air is due to the oxides of

(A) Sulfur

(B) Nitrogen

(C) Carbon

(D) Phosphorus

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CORRECT ANSWER: B

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Q-35 - 35784613

Kyoto Protocol was endorsed at:

(A) CoP-3

(B) CoP-5

(C) CoP-6

(D) CoP-4

---

CORRECT ANSWER: A

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SOLUTION:

Kyoto Protocol is an international agreement linked to United nations framework convention on climate change. It held at Kyoto, Japan in 1997 and entered into force on 16 February, 2005. The developed countries agreed to specific targets for cutting their emissions of greenhouse gases. A general framework was defined for this, with specifics to be detailed over the next few years. This became known as the Kyoto Protocol.

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Q-36 - 41530619

The most significant attribute of noise is its

- (A) duration
- (B) unpleasant nature
- (C) Loudness
- (D) Frequency

---

CORRECT ANSWER: C

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Q-37 - 41530601

Freon is

- (A) Ferrous sulphide pollutant
  - (B) Chloroflurocarbons
  - (C) Iron containing polycyclic hydrocarbons
  - (D) Metal fluoride.
- 

CORRECT ANSWER: B

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Q-38 - 35784607

A scrubber in the exhaust of a chemical industrial plant removes:

- (A) Gases like sulphur dioxide
  - (B) Particulate matter of the size 5 micrometer or above
  - (C) Gases like ozone and methane
  - (D) Particulate matter of the size 2.5 micrometer or less
-

CORRECT ANSWER: A

---

SOLUTION:

Scrubber is an electrostatic precipitator in which the dirty air is cleaned by capturing the gas like  $SO_2$  and other oxides in water/lime spray ( $CaCO_3$ ). The calcium in lime stone combines chemically with the sulphur to produce calcium sulphate ( $CaSO_4$ ), which is separately collected. The detailed mechanism is shown in the figure below.



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Q-39 - 41530627

Etching of marble, limestone, jewellery , etc. is caused by pollutant

(A)  $CO_2$

(B) CO

(C)  $SO_2$

(D)  $CH_4$

---

CORRECT ANSWER: C

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Q-40 - 35784611

The Air Prevention and Control of Pollution Act came into force in:

(A) 1975

(B) 1981

(C) 1985

(D) 1990

---

CORRECT ANSWER: B

---

SOLUTION:

Air Prevention and Control of Pollution Protection Act come into force in 1981 to control and prevent air pollution. It was amended in 1987. Environmental Protection Act in 1986 and water (Prevention and Control of Pollution) act in 1974.

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Q-41 - 41530629

Photochemical smog was first observed in

- (A) Los angeless
- (B) Tokyo
- (C) New york
- (D) Sydney

---

CORRECT ANSWER: A

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Q-42 - 41530630

Classical smog was first observed in

(A) Tokyo

(B) New york

(C) Sydney

(D) London

---

CORRECT ANSWER: D

Q-43 - 35784633

Montreal protocol aims at:

(A) reducing of ozone depleting substances

(B) biodiversity conservation

(C) control of water pollution

(D) control of  $CO_2$

---

CORRECT ANSWER: A

---

SOLUTION:

In August 1989, 44 countries and EEC ratified the Montreal Protocol, which provides a mechanism to review the efficiency of control measures. They also agreed to phase out the halogens and to control and reduce other Ozone Depleting Substances (ODSs). IN a policy statement called Helsinki Declaration, the attending nations agreed to phase out the production and consumption of controlled CFCs as soon as



possible but not later than the year 2007.

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Q-44 - 35784650

Montreal protocol which calls for appropriate action to protect the ozone layer from human activities was passed in the year:

(A) 1986

(B) 1987

(C) 1988

(D) 1985

---

CORRECT ANSWER: B

---

SOLUTION:

In 1987, twenty seven industrialised countries signed the

Montreal protocol for reducing in production and release of CFCs chlorofluorocarbons depleting ozone layer, into the atmosphere. It was followed by increasingly stringent amendments in London in 1990 and in Copenhagen in 1992.

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Q-45 - 41231424

The smog which is formed at high temperature is

- (A) London smog
- (B) Classical smog
- (C) Los Angeles smog
- (D) Sulfurous smog

---

CORRECT ANSWER: C

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Q-46 - 35784630

DDT residues are rapidly passed through food chain causing biomagnification because DDT is

- (A) lipid soluble
- (B) moderately toxic
- (C) non-toxic to aquatic animals
- (D) water soluble

---

CORRECT ANSWER: A

---

SOLUTION:

Many of the pesticides, such as DDT, aldrin and dieldrin are accumulated in the environment. They are fat soluble and generally non-biodegradable. They get

incorporated into the food chain and ultimately deposited in the fatty tissues of animals and humans.

In the food chain, because of their build up, they get magnified in the higher trophic levels called biological magnification. The phenomenon of biological magnification is also reported for certain other pollutants such as, heavy metals, e.g., mercury, copper and radioactive substances as strontium-90.

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Q-47 - 41231419

Which is not a natural source of  $CH_4$  in the environment

- (A) Biomass burning
- (B) Termites
- (C) Gut of ruminants

(D) Rice fields

---

CORRECT ANSWER: A

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Q-48 - 35784634

Biochemical oxygen demand (BOD) in a river water

(A) remains unchanged when algal bloom occurs

(B) has no relationship with concentration of oxygen in the water

(C) gives a measure of Salmonella in the water

(D) increases when sewage gets mixed with river water

---

CORRECT ANSWER: D

---

SOLUTION:

When sewage gets mixed with river water, BOD will increase. Biochemical Oxygen Demand (BOD) is the amount of oxygen used for biochemical oxidation of organic matter by microorganism in a unit volume of water. Polluted water has high BOD.

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Q-49 - 41231512

Temperature variation in Pacific Ocean in present time is called

- (A) Cyclone effect
- (B) El Nino effect
- (C) Greenhouse effect
- (D) Gaudikov's effect

---

CORRECT ANSWER: B

---

Q-50 - 41231423

Which is not an effect of acidic rain in a pond

- (A) Increased fungal growth
- (B) Decreased insect population
- (C) Increased growth of green algae
- (D)  $NO_3$  and  $SO_4$  saturation.

---

CORRECT ANSWER: C

Q-51 - 35784627

dN is a standard abbreviation used for the quantitative expression of

(A) the density of bacteria in a medium

(B) a particular pollutant

(C) the dominant Bacillus in a culture

(D) a certain pesticide

---

**CORRECT ANSWER: B**

---

**SOLUTION:**

Noise pollution is a physical form of pollution that affects the receiver directly affecting the nervous system which result into various disorders in humans. dB (decibel) is a standard abbreviation used for the quantitative expression of noise. Noise or pollutant sound has a value of 80 dB and above, it harms hearing system. The WHO has fixed 45 dB as the safe noise level for a city.

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In troposphere,  $O_3$  promotes

- (A) Oxidation of biochemicals
  - (B) Destruction of chlorenchyma
  - (C) Both A and B
  - (D) Growth of plants
- 

CORRECT ANSWER: C

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Major air pollutant is

- (A)  $CO_2$
- (B)  $N_2$

(C) CO

(D) S

---

CORRECT ANSWER: C

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Q-54 - 41530596

A colourless, nonirritant , highly toxic gas that impairs respiration is

(A)  $SO_2$

(B)  $NO_2$

(C)  $CO_2$

(D) CO.

---

CORRECT ANSWER: D

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Which is not an effect of global warming?

- (A) More extreme weather condition
  - (B) Poleward shifting of organism
  - (C) Rise of sea level
  - (D) Good fungal growth in soil.
- 

**CORRECT ANSWER: D**

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In an area where DDT had been used extensively, the population of birds declined significantly because:

(A) birds stopped laying eggs

(B) earthworms in the area got eradicated

(C) cobras were feeding exclusively on birds

(D) many of the birds laid eggs, that did not hatch

---

**CORRECT ANSWER: D**

---

**SOLUTION:**

DDT, its breakdown products and other chlorinated hydrocarbon pesticides pose serious threat to birds.

These persistent poisons enter the food chain and they accumulate in the fatty tissues of organisms at lower trophic level and then tend to concentrate in considerably toxic amount as they move up through the food chain. This is called biomagnification or bioconcentration. It weakens the calcareous egg shell of

birds as it becomes very thin.

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Q-57 - 41231417

Which plant has the maximum power of absorbing  $CO_2$  and oxides of nitrogen in a polluted area?

- (A) Eucalyptus
- (B) Coleus indica
- (C) Robinia pseudoacacia
- (D) Daucus carota

---

CORRECT ANSWER: C

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Q-58 - 35784703

Ozone hole is maximum over

(A) India

(B) Antarctica

(C) Europe

(D) Africa

---

CORRECT ANSWER: B

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SOLUTION:

An ozone hole (thinning) has been formed over Antarctica as a result of damage to ozone. Most ozone is formed in the stratosphere over the equator and spread by winds around the globe. Icy particles in polar stratosphere clouds catalyse the release of chlorine (from CFC) which destroys ozone. The thinning in ozone is maximum because in winter there is exceptionally

cold.

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Q-59 - 41231448

The National Forest Policy of India has recommended \_\_\_\_\_ percent forest cover for hilly areas.

(A) 67

(B) 33

(C) 19.4

(D) 30

---

CORRECT ANSWER: A

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Q-60 - 35784704

The major contributor of green-house gases to the atmosphere is

(A) Russia

(B) USA

(C) Germany

(D) Brazil

---

CORRECT ANSWER: B

---

SOLUTION:

The major contributor of greenhouse gases to the atmosphere is USA.

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Q-61 - 41231432

Blue-baby syndrome is due to



(A) Air pollution

(B) Soil pollution

(C) Thermal pollution

(D) Radioactive pollution

---

**CORRECT ANSWER: B**

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Q-62 - 41231445

Acoustic zoning is related with

(A) Soil pollution

(B) Noise pollution

(C) Water pollution

(D) Air pollution

---

CORRECT ANSWER: B

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Q-63 - 35784707

In Minamata Bay of Japan, the animals which remained free from Minamata disease, are

(A) pigs

(B) rabbits

(C) dogs

(D) cats

---

CORRECT ANSWER: B

---

SOLUTION:

Rabbits remained free from Minamata disease as they

are herbivores and this disease is caused due to mercury pollution in water.

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Q-64 - 35784638

"Chipko movement" was launched for the protection of :

(A) grasslands

(B) forests

(C) livestock

(D) wet lands

---

CORRECT ANSWER: B

---

SOLUTION:

In 1973, the Chipko Movement (Chipko means to hug or

stick to the trunk of the tree) was launched by Chandi Prashad Bhatt and Sunder Lal Bahuguna against large scale felling of trees by timber point was Chamoli district of Garhwal region in Uttarakhand.

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Q-65 - 41231443

Volcanic eruptions let out large quantities of

- (A) Harmful dust and sulphurous gases
- (B) Harmful dust and nitrous gases
- (C) Harmful dust and carbonous gases
- (D) Harmful dust and phosphorous gases

---

CORRECT ANSWER: C

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According to Central Pollution Control Board (CPCB), which particulate size in diameter (in micrometers) of the air pollutants is responsible for greatest harm to human health ?

(A) 2.5 or less

(B) 1.5 or less

(C) 1.0 or less

(D) 5.2 or less

---

**CORRECT ANSWER: A**

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**SOLUTION:**

According to CPCB, air pollutants of size 2.5 or less (in micrometres) diameter are harmful to human health. It is the main cause of respiratory disorders in polluted cities

like Delhi.

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Q-67 - 41231434

Soil fertility is depleted due to

- (A) Pan breaking
- (B) Terracing
- (C) Intensive agriculture
- (D) Contour bunding

---

CORRECT ANSWER: C

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Q-68 - 35784643

Which one of the following is not a bioindicator of water pollution ?

(A) Sludge worms

(B) Blood worms

(C) Stone flies

(D) Sewage fungus

---

CORRECT ANSWER: C

---

SOLUTION:

Among the following stone flies are not bioindicators of pollution. Stone flies (e.g. *Perla* sp.) belong to order-Plecoptera of class - Insecta, which has the terrestrial mandibulates.

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Q-69 - 41231444

Painful skeletal deformity called itai-itai is caused due to

(A) Cd

(B) Hg

(C) CO

(D)  $NO_2$

---

CORRECT ANSWER: A

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Q-70 - 35784644

In a coal fired power plant, electrostatic precipitators are installed to control emission of

(A)  $SO_2$

(B)  $NO_x$

(C) SPM



(D) CO

---

CORRECT ANSWER: C

---

SOLUTION:

The electrostatic precipitators are installed to control emission of Suspended Particulate Matter (SPM) as it is cause of various respiratory disorders in humans.

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Q-71 - 35784697

Phosphate pollution is caused by

- (A) phosphate rock only
- (B) agricultural fertilisers only
- (C) sewage and phosphate rocks

(D) sewage and agricultural fertilisers

---

CORRECT ANSWER: D

---

SOLUTION:

Man has been releasing large quantities of phosphorus into the biosphere in the form of agriculture fertilisers (superphosphates) and synthetic detergents.

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Q-72 - 35784698

In the coming years, skin related disorders will be more common due to :

(A) air pollution

(B) use of detergents

(C) water pollution

(D) depletion of ozone layer

---

CORRECT ANSWER: D

---

SOLUTION:

Ozone layer is found in the stratosphere of atmosphere.

It absorbs harmful ultraviolet rays coming from the sun.

In coming years, when the ozone layer may become thinner, ultra-violet radiations may reach earth directly to cause cancer, especially skin cancer.

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Q-73 - 35784648

Photochemical smog pollution does not contain

(A) ozone

(B) nitrogen dioxide

(C) carbon dioxide

(D) PAN (Peroxy Acyl Nitrate)

---

CORRECT ANSWER: C

---

SOLUTION:

Photochemical smog is highly oxidising pollutant comprising largely of ozone ( $O_3$ ), oxides of nitrogen ( $NO_x$ ), hydrogen peroxide ( $H_2O_2$ ), organic peroxides, Peroxy Acetyl Nitrate (PAN) and Peroxy Benzyl Nitrate (PBN) but not carbon dioxide ( $CO_2$ ).

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Q-74 - 41231433

Release of phosphates and nitrates in water bodies like lakes lead to:

(A) Nutrient enrichment (eutrophication)

(B) Reduced algal growth

(C) Increased algal growth

(D) Increased growth of decomposers

---

CORRECT ANSWER: C

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Q-75 - 35784719

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) pesticide residue

(C) household waste

(D) radioactive fall-out

---

CORRECT ANSWER: A

---

SOLUTION:

Automobile exhausts are the largest source of air pollution in big cities. Automobiles release carbon monoxide (77.2%), hydrocarbons (13.7%) and nitrogen oxide (7.7 %).

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Q-76 - 41231435

Spraying of pesticide is an example of

(A) Point source water pollution

(B) Diffuse water pollution

(C) Both (1) and (2)

(D) Pyrolysis

---

CORRECT ANSWER: B

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Q-77 - 35784715

Sounds above what level are considered hazardous noise pollution?

(A) above 30 dB

(B) above 80 dB

(C) above 100 dB

(D) above 120 dB

---

CORRECT ANSWER: B

---

SOLUTION:

Noise pollution is measured in decibels. Noise level up

to 64 dB is well tolerated. Noise above 80 dB causes discomfort in man. WHO recommends an industrial noise limit of 75 dB.

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Q-78 - 41231488

Non-ionising radiations damaging to DNA are

- (A) X-rays
- (B) U.V. rays
- (C) Gamma rays
- (D) Beta rays

---

CORRECT ANSWER: B

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The Taj Mahal is threatened due to the effect of

(A) oxygen

(B) hydrogen

(C) chlorine

(D) sulphur dioxide

---

CORRECT ANSWER: D

---

SOLUTION:

Taj Mahal of Agra is affected by gases discharged from oil refinery in Mathura which consists of  $SO_2$ ,  $H_2S$  and nitrogen oxide.  $SO_2$  corrodes metals, equipment and damages buildings marble.

Ecological backlash (or ecological boomerang) is

- (A) Heat emission due to bomb explosion
- (B) Production of useful ecological effect by a previously useful chemical
- (C) Formation of secondary pollutant from the reaction of primary pollutants
- (D) Production of adverse ecological effect by a previously useful chemical

---

CORRECT ANSWER: D

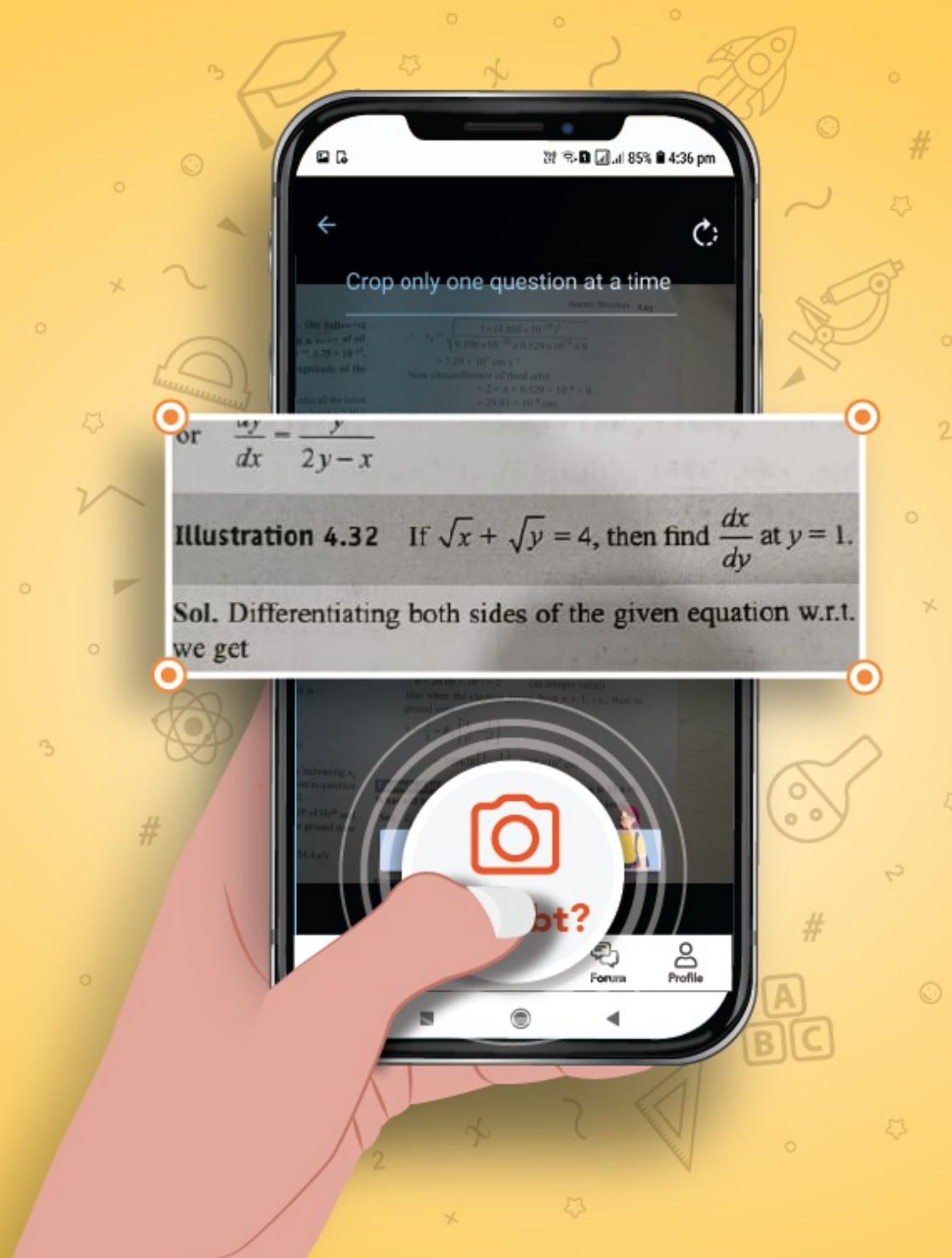
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