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Q-1 - 12227792

The greenhouse effects is because of the

- (A) Presence of CO_2 and chlorofluoro-hydrocarbons in the atmosphere
- (B) Presence of gases, which in general are strong infrared absorbers in the atmosphere.
- (C) Presence of NO_2 only in the atmosphere
- (D) Presence of O_3 and CH_4 in the atmosphere

CORRECT ANSWER: A

SOLUTION:

Presence of CO_2 and Feron's doesn't allow to return back the radiation in environment

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Q-2 - 14162382

Greenhouse effect keeps the earth surface

- (A) cold in night
- (B) dusty and cold
- (C) warm in night
- (D) moist in night

CORRECT ANSWER: C

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Q-3 - 12227980

The natural greenhouse effect is crucial in maintaining the proper temperature for life on Earth. Thus,

(A) without it, earth would be permanently covered with ice

(B) increase in CO_2 content, increase global warming

(C) both (a) and (b) are correct

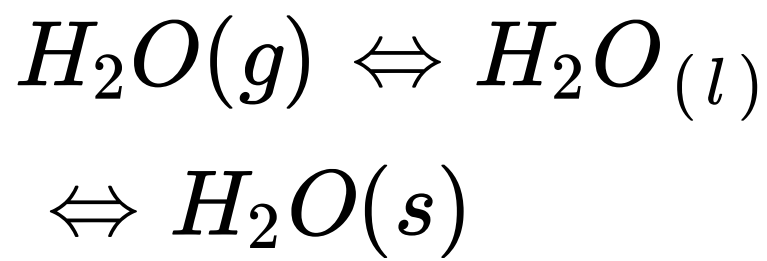
(D) None of these

CORRECT ANSWER: C

SOLUTION:

Greenhouse effect occurring naturally makes temperature control of the atmosphere.

If it is absent, there is no warming hence, no vaporization of H_2O_l . Temperature will be lowered, thus only ice appears.



$$\Delta G < 0$$

If CO_2 content increases. more IR radiation are absorbed and warming takes place.

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Q-4 - 12228116

Which of the following is / are the hazardous pollutant(s) present in automobile exhaust gases ?

(A) (ii) and (iii)

(B) (i) and (ii)

(C) (ii) and (iv)

(D) (i) and (iii)

CORRECT ANSWER: C

SOLUTION:

CO and oxides of nitrogen and poisonous gases present in automobile exhaust gases.

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Q-5 - 12227905

Which of the following is a primary pollutant?

(A) PAN

(B) CO

(C) Aldehydes

(D) H_2SO_4

CORRECT ANSWER: B

SOLUTION:

CO is a primary pollutant.

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Q-6 - 12228061

Green chemistry means such reactions which

- (A) are related to depletion of ozone layer
- (B) reduce the use and production of hazardous chemicals
- (C) produce green colour in reactions
- (D) study the reaction in plants

CORRECT ANSWER: B

SOLUTION:

Green chemistry implies to reduce the use and production of hazardous chemicals.

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Q-7 - 12228091

The false statement among the following :

- (A) The average residence time for NO is one month
- (B) Limestone acts as a sink for SO_x
- (C) SO_x can be removed from flue gases by passing through a solution of citrate ions
- (D) Ammonia acts as a sink for SO_x

CORRECT ANSWER: A

SOLUTION:

The average residence time of NO is 4 days.

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Q-8 - 12228093

Which of the following is not a consequence of greenhouse effect?

- (A) Climatic conditions will be changed.
- (B) Plants in warmer climates with adequate rainfall would grow faster.
- (C) The incidence of infectious diseases is likely to increase.
- (D) Malaria will be controlled as the mosquitos will not survive.

CORRECT ANSWER: D

SOLUTION:

The mosquitoes will increase their population and spread malaria.

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Q-9 - 12227913

Pollution is

- (A) removal of top soil
 - (B) release of toxic / undesirable material in environment
 - (C) conservation of energy
 - (D) all the above
-

CORRECT ANSWER: B

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Q-10 - 12228097

Tropospheric pollution is mainly due to

(A) gaseous air pollutants

(B) particulate pollutants

(C) both (a) and (b)

(D) None of these

CORRECT ANSWER: C

SOLUTION:

Gaseous air pollutants - oxides of sulphur , carbon and nitrogen

(SO_2 , CO , CO_2 ,
 NO_2), H_2S

, hydrocarbons, ozone . Particulate pollutant , Dust, mist fumes, smoke , smog, (PAN).

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Carcinogenic pollutants are

(A) *PCBs*

(B) Benzene

(C) both (a) and (b)

(D) None of these

CORRECT ANSWER: C

SOLUTION:

PCB- Polychlorinated Biphenyls and benzene are carcinogenic.

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

(A) Ozone

(B) Acrolein

(C) Peroxyacetyl nitrate

(D) Chlorofluorocarbons

CORRECT ANSWER: D

SOLUTION:

The oxidised hydrocarbons and ozone in the presence of humidity cause photochemical smog.

Hydrocabons

+ O_2 , NO_2 , NO , O_3

→

peroxide , formaldehyde, peroxyacetylnitrate (PAN)

,acrolein etc.

Hence chlorofluorocarbons are not common component of photochemical smog.

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Q-13 - 12228124

Which of the following is a sink for CO ?

- (A) Micro-organism present in the soil
- (B) Oceans
- (C) Plants
- (D) Haemoglobin

CORRECT ANSWER: A

SOLUTION:

Micro-organism present in the soil.

Q-14 - 13169687

Dioxygen present in the atmosphere is believed to be produced by

(A) photosynthesis

(B) irradiation

(C) thermolysis

(D) electrolysis

CORRECT ANSWER: 1

SOLUTION:

it was the process of photosynthesis that started to

convert the CO_2 components of Earth's early

atmosphere to dioxygen (O_2) about 2.5×10^9 years

ago, its present oxygen-rich state was attained about

5×10^8 years ago.

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Q-15 - 18682970

Depletion of ozone layer is not due to

(A) Cl_2

(B) NO

(C) $CFC's$

(D) CO

CORRECT ANSWER: 4

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Q-16 - 12227951

Ozone depletion in stratosphere shall result in:

(A) forest fires

(B) increased incidence of skin burns and skin cancer

(C) increase in biological oxygen demand

(D) global warming

CORRECT ANSWER: B

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Q-17 - 12228129

The medium present in the environment which consumes some amount of certain pollutant is called a

(A) sink

(B) target

(C) receptor

(D) none to these

CORRECT ANSWER: A

SOLUTION:

Sink is the medium in the environment which consumes partly or completely a certain pollutant.

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Q-18 - 19213039

Which is not a gaseous air pollutant ?

(A) Smoke

(B) Hydrocarbons

(C) Ozone

(D) Oxides of sulphur

CORRECT ANSWER: A

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Q-19 - 12227998

Phosphate pollution is caused by

- (A) Weathering of phosphate rock only
- (B) agriculture fertilizers only
- (C) phosphate rocks and sewage
- (D) sewage and agricultural fertilizers

CORRECT ANSWER: D

SOLUTION:

Sewage consists food materials which contains phosphate and also agriculture fertilizers contain

phosphate which are added in excess in corn fields .

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Q-20 - 12227931

Persistent pesticides such as *DDT* pass into food chain and increase in amount per unit weight of organism due to their accumulation in fat. This phenomenon is called

(A) biomagnification

(B) biodegradation

(C) biosynthesis

(D) decomposition

CORRECT ANSWER: A

SOLUTION:

Biomagnification is a process of increasing the amount of persistent pesticides per unit weight of organisms due to their accumulation in fat .

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Q-21 - 12228143

Which of the following is not an example of green chemistry?

- (A) Reacting methylemine and phosgene to produce methyl isocyanate
- (B) Replacement of $CFCs$ by CO_2 as blowing agent in the manufacture of polystyrene foam sheets
- (C) Catalytic dehydrogenation of the diethanol amine without using cyanide and formaldehyde
- (D) Replacement of organotins by 'sea-nine' as antifouling compound in sea marines.

CORRECT ANSWER: A

SOLUTION:

Reaction of methylemine and phosgene to produce

MIC (Methyl isocyanate) is not an example of green chemistry.

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Q-22 - 12228017

Which of the following statements (I)-(IV) are true about photochemical smog?

(A) I,II and IV

(B) II,III and IV

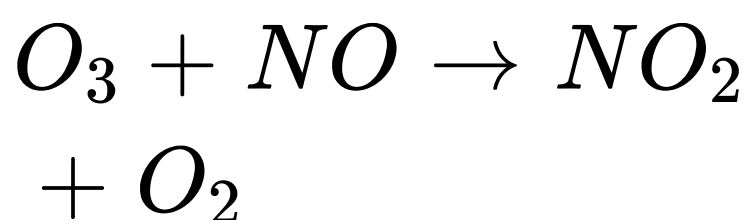
(C) I,III and IV

(D) I,II and III

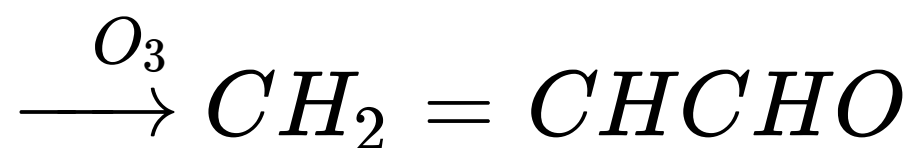
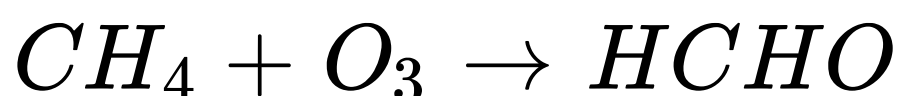
CORRECT ANSWER: D

SOLUTION:

(Undurnt hydrocarbons+NO) from automobiles



NO_2 and O_3 both the strong oxidizing agents. Undurnt fuel is oxidized to formaldehyde and acrolein and *PAN*.



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DDT is

- (A) a fertilizer
- (B) biodegradable Pollutant
- (C) greenhouse gas
- (D) non-biodegradable pollutant

CORRECT ANSWER: D

SOLUTION:

DDT is non-biodegradable pollutant.

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Q-24 - 12228154

Domestic waste mostly constitute:

- (A) Non-biodegradable Pollutions

(B) biodegradable Pollution

(C) effluents

(D) air pollutions

CORRECT ANSWER: B

SOLUTION:

Domestic waste generally contains organic matter which is biodegradable.

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Q-25 - 12228158

Disinfection of water removes

(A) hardness

(B) taste

(C) colour

(D) Bacteria

CORRECT ANSWER: D

SOLUTION:

The process by which harmful bacteria are destroyed to make it safe for drinking is called disinfection.

Disinfection can be done by using:

$$-O_3$$

boiling

— CaO

$$-I_2$$
$$Br_2$$

– *UVliquid*

$$-KMnO_4$$

– Cl_2 (bleaching)

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Q-26 - 12228072

Acid rain is harmful for

(A) agriculture

(B) aquatic ecosystem

(C) building made of marble or metal

(D) All of these

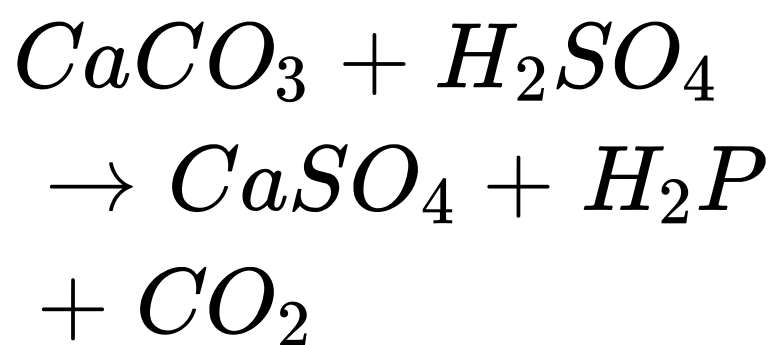
CORRECT ANSWER: D

SOLUTION:

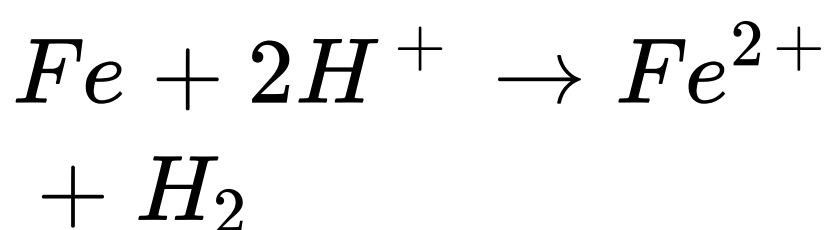
(a) Acid rain decreases soil fertility due to leaching out of plant nutrients.

(b) Due to acid rain, pH value of some lakes and streams decreases (and sometimes falls below 3), at which fishes are adversely affected and some varieties are even killed. Dissolution of toxic metals (*Cd, Pb, Al, etc.*) from bottom sediments affect fish and drinking water.

(c) Acid rain corrodes buildings made of marble and metals. Marble ($CaCO_3$) is badly affected by H_2SO_4 (of acid rain).



Metals (especially Fe) is also affected by acid rain and causes rusting.



Taj mahal is made of marble ($CaCO_3$) and is being affected by acid rain.

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Q-27 - 12227974

Ozone is an important constituent of stratosphere because it

- (A) Destroys bacteria which are harmful to human life
 - (B) Prevents the formation of smog over large cities
 - (C) Absorbs ultraviolet radiation which is harmful to human life
 - (D) removes poisonous gases of the atmosphere by reacting with them
-

CORRECT ANSWER: C

SOLUTION:

Ozone absorbs UV radiation harmful to human life .

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Q-28 - 12228081

Formation of ozone in the upper atmosphere from oxygen takes place by the action of

(A) Nitrogen oxide

(B) Ultraviolet rays

(C) Cosmic rays

(D) Free radicals

CORRECT ANSWER: B

SOLUTION:

In presence of UV rays O_2 is converted into O_3 .

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Q-29 - 12228077

Higher incidents of heart diseases in smokers is related to high content of

(A) CO_2

(B) CO

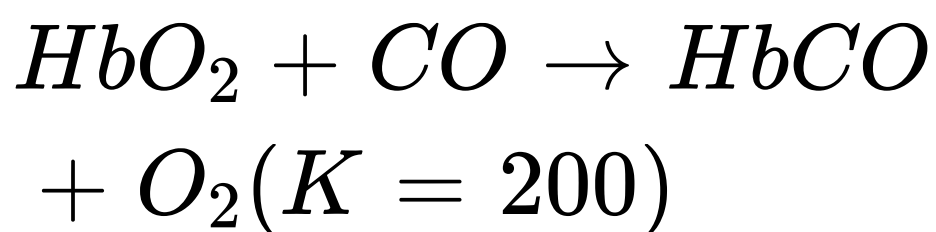
(C) H_2O

(D) CN^-

CORRECT ANSWER: B

SOLUTION:

Due to smoking, CO goes into heart and combines with haemoglobin of blood. Thus, O_2 releasing tendency is decreased.



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Q-30 - 12228161

The amount of chlorine available in water after disinfection is called

(A) Free chlorine

(B) Free available chlorine

(C) residual chlorine

(D) combined available chlorine

CORRECT ANSWER: C

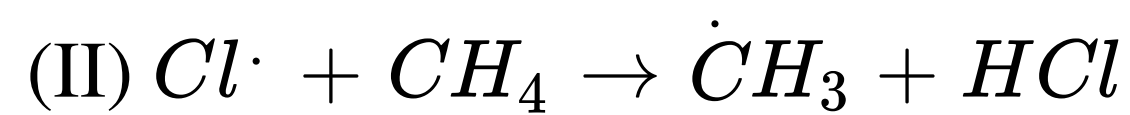
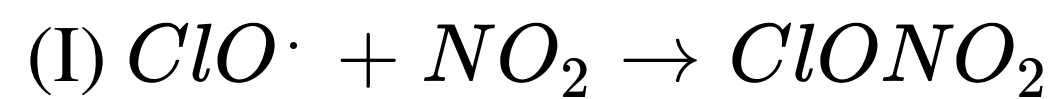
SOLUTION:

The amount of chlorine available in water after the disinfection is called residual chlorine. It is about $0.2 - 0.3 \text{ mgL}^{-1}$.

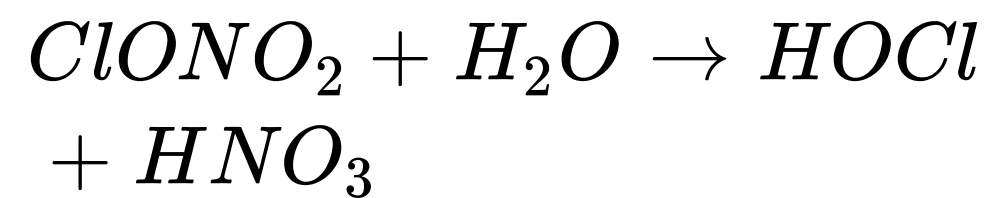
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Q-31 - 12228021

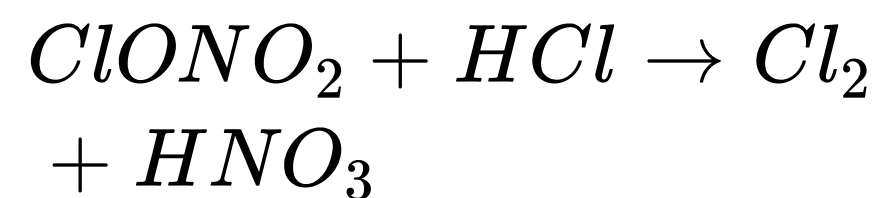
Consider the following reactions provided by scientists working in Antarctica about ozone hole.



(III)



(IV)



In summer season, there is less depletion of ozone layers due to reactions.

(A) both I and III

(B) both III and IV

(C) Both I and II

(D) Both II and IV

CORRECT ANSWER: C

SOLUTION:

In summer season, reaction I and reaction II take place, CI (which cause depletion) is eliminated, hence less destruction to O_3 layer.

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Q-32 - 13157117

The potential barrier, in the depletion layer, is due to

- (A) ions
- (B) holes
- (C) electrons
- (D) both (2) and (3)

CORRECT ANSWER: A

SOLUTION:

NA

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Q-33 - 12228126

Ozone depletion over Antarctica is due to the

(A) Formation of chlorine nitrate ($ClONO_2$)

(B) formation of HCl

(C) formation of $HOCl$ and Cl_2 which are converted back into reactive Cl atoms

(D) none of the above

CORRECT ANSWER: C

SOLUTION:

HOCl and Cl_2 are formed over Antarctica. These are converted back into reactive Cl atoms which start the chain reaction with O_3 causing its depletion.

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Q-34 - 19213077

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

(A) methylisocyanate

(B) methylamine

(C) ammonia

(D) phosgene

CORRECT ANSWER: A

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Carcinogenic pollutants are formed on incomplete combustion of

- (A) Tobacco
 - (B) Coal
 - (C) Petroleum
 - (D) All the above
-

CORRECT ANSWER: D

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Soil pollution is due to

- (A) insecticides

(B) Pesticides

(C) herbicides

(D) All of these

CORRECT ANSWER: D

SOLUTION:

(a) Insecticides DDT (but banned due to adverse effect)

Aldrin, dieldrin.

(b) Pesticides As nicotine (before World War II organic phosphate carbonates).

(c)Herbicides $NaClO_3$ (Sodium chlorate), Na_3AsO_3 (Sodium arsenite)

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Cl_2 and SO_2 are pollutants as well as bleaching agents. Their bleaching action is due to

(A) SO_2 = Oxidation, Cl_2 = Oxidation

(B) SO_2 = Reduction, Cl_2 = Reduction

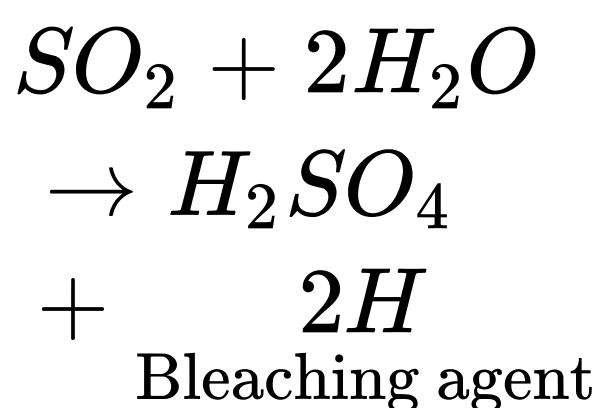
(C) SO_2 = Oxidation, Cl_2 = Reduction

(D) SO_2 = Reduction, Cl_2 = Oxidation

CORRECT ANSWER: D

SOLUTION:

SO_2 in the presence of moisture releases nascent H which acts as bleaching agent of flowers, textiles, etc.



Cl_2 in the presence of moisture release nascent O which acts as bleaching agent.



+ O
Bleaching agent

.

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Q-38 - 12228122

Which one of the following statement is not true?

(A) Dissolved oxygen (DO) in cold water can reach a concentration up to $10p \pm$.

(B) Clean water would have a BOD value of $5p \pm$.

(C) Fluoride deficiency in drinking water is harmful.

Soluble fluoride is often used to bring its concentration up to $1p \pm$.

(D) When the pH of rain water is higher than 6.5, it is called acid rain.

CORRECT ANSWER: D

SOLUTION:

Acid rain is the rain water containing sulphuric acid and nitric acid, which are formed from the oxides of sulphur and nitrogen present in the air as pollutants and rain water has a pH of 4 – 5.

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Q-39 - 13169773

Which of the following noble gases is present in the Earth's atmosphere in maximum percentage by volume?

(A) Argon

(B) Radon

(C) Helium

(D) Xenon

CORRECT ANSWER: 1

SOLUTION:

All the stable noble gases

(He , Ne , Ar ,

Kr and Xe)

are found in the atmosphere although only argon is

present in a high proportion (0.93 % by moles). The

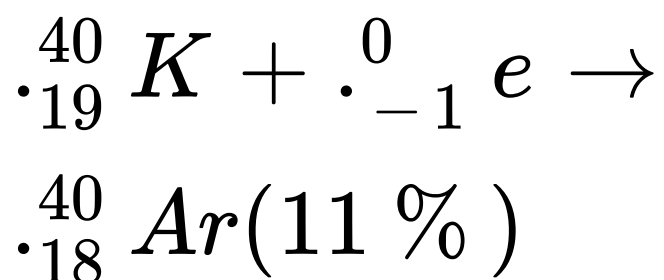
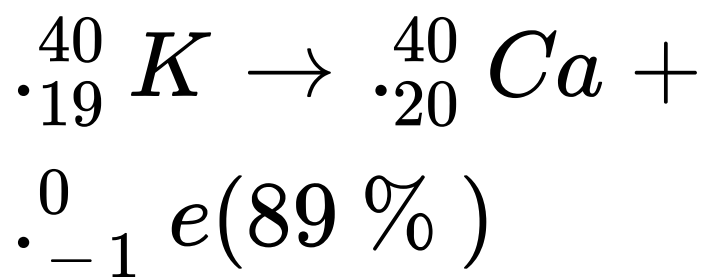
high abundance of Ar in the atmosphere is a result of

the radioactive decay of potassium — 40, the naturally

occurring radioactive isotope of K . This isotope has two

decay pathways ,one of which involves the capture of a

core electron to form argon-40:



Helium is found in high concentration in some underground natural gas deposits where it has been accumulating from the decay of radioactive element in the Earth's crust.

All the other noble gases are obtained as by-products of the productions of dioxygen from air. Some Ar is also obtained from industrial NH_3 synthesis (Haber process), where it accumulates during the recycling of the unused atmospheric gases.

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Which of the following produces another air pollutant by reacting with oxides of nitrogen in presence of sunlight ?

(A) HCl

(B) SO_2

(C) O_3

(D) HCN gas

CORRECT ANSWER: 3

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Q-41 - 12661060

Which of the following gases *is / are* called rare gas?

(A) Ne

(B) He

(C) Kr

(D) All of these

CORRECT ANSWER: D

SOLUTION:

He, Ne , and Kr all are found in very little amount in atmosphere, so all are called rare gases.

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Q-42 - 18682943

Which of the following is a secondary air pollutant?

(A) CO

(B) Hydrocarbons

(C) PAN

(D) *NO*

CORRECT ANSWER: 3

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Q-43 - 12974590

Greenhouse effect is a term used to describe

(A) global cooling caused by the excess amount of CO_2 in the atmosphere

(B) the warming effect produced by the greenness of the plants

(C) the cooling effect produced by the gree-colored houses

(D) global warming produced by the excess amount of CO_2 in the atmosphere

CORRECT ANSWER: D

SOLUTION:

Many small molecules in the atmosphere, particularly H_2O and CO_2 , absorb certain wavelengths of the escaping radiation from earth's surface. Thus, these small molecules act like glass in a green house. It is the re-radiation of their absorbed energy back to the earth that warms the oceans, land, and air.

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Q-44 - 16608800

Methane is greenhouse gas because -

(A) it absorbs longer wavelengths of the electromagnetic spectrum while transmitting shorter wavelengths.

(B) it absorbs shorter wavelengths of the electromagnetic spectrum while transmitting longer wavelengths

(C) it absorbs all wavelengths of the electromagnetic spectrum

(D) it transmits all wavelengths of the electromagnetic spectrum

CORRECT ANSWER: A

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Q-45 - 12972644

Which of the following are environmentally hazardous refrigerants responsible for ozone depletion in the stratosphere ?

(A) *CFCs*

(B) FCC_s

(C) CCF_s

(D) Both(1) and (2)

CORRECT ANSWER: A

SOLUTION:

Chlorofluorocarbons used as refrigerants destroy the ozone layer.

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Q-46 - 11483817

An automobile engine fuel has cetane number of 80. Which of the following statements is/are true ?

(A) (a) Fuel contains 80 % of α -methyl naphthalene and 20 % of $C_{16}H_{34}$.

(B) (b) Fuel contains 80 % of centane and 20 % of α -methyl naphthalene.

(C) (c) Knocking property of the given fuel compared to the knocking property of a fuel with cetane number of 90 is high.

(D) (d) Centane number determines the quality of diesel fuel in terms of ignition properties.

CORRECT ANSWER: B::D

SOLUTION:

a. Wrong (by the definition of centane number).

b. True (by the definition of centane number).

Wrong (higher cetane number means higher percentage of straight-chain hydrocarbon ($C_{16}H_{32}$, whose knocking property is high). Therefore, cetane number of 90 has high knocking property (make more rattling sound).

d. True (cetane number determines the quality of diesel fuel in terms of spontaneous ignition). Higher cetane number means that ignites faster but makes more rattling sound (i.e., more knocking).

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Q-47 - 12225658

Assertion: Poisson ratio of atmospheric gases is approximately equal to 1.4.

Reason: Gases present in atmosphere are mainly diatomic.

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

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

(C) If assertion is true but reason is false.

(D) If assertion is false but reason is true.

CORRECT ANSWER: A

SOLUTION:

Explanation is correct reason for statement

$$\gamma = \frac{C_p}{C_v} = 1.4$$

for diatomic gases. Atmosphere mainly contains

N_2 and O_2 .

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Q-48 - 12228092

Which of the following statements are True (T) or False (F)? Mark them and select the answer from the codes given below.

- (I) Ozone is not responsible for greenhouse effect.
- (II) Ozone can oxidize SO_2 present in the atmosphere to SO_3
- (III) Ozone hole is thinning of ozone layer present in stratosphere.

(IV) Ozone is produced in the upper stratosphere by the action of *UV* rays on oxygen.

(A)

$$I = F, II = T, III = T, IV = T$$

(B)

$$I = T, II = F, III = T, IV = F$$

(C)

$$I = F, II = F, III = T, IV = T$$

(D)

$$I = T, II = T, III = F, IV = F$$

CORRECT ANSWER: A

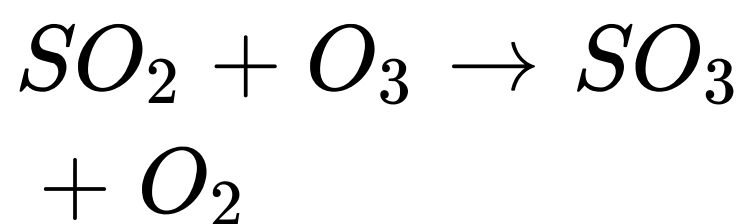
SOLUTION:

(I) There are several gases that are even stronger *IR*

absorbers than CO_2 . These are CH_4 , O_3 , N_2 and CFC .

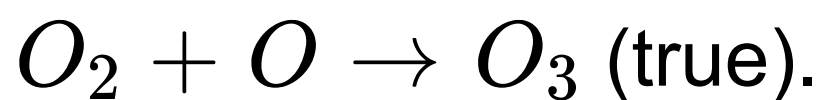
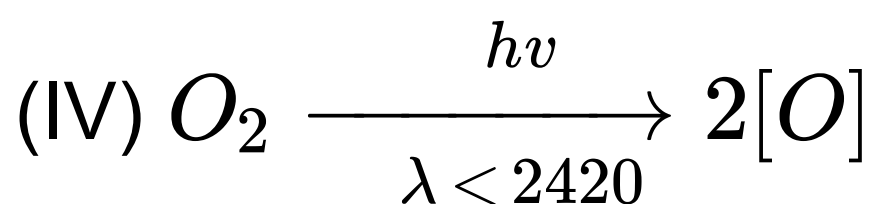
Thus, these gases are responsible for greenhouse effect. Thus, given statement is false.

(II)



(true)

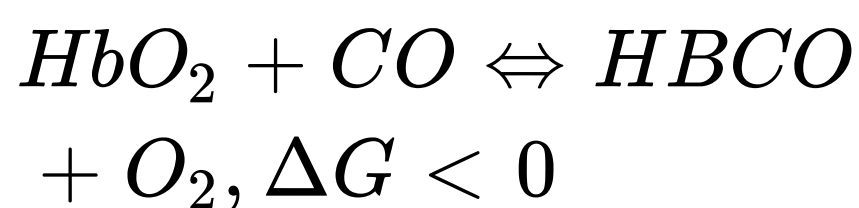
(III) True



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Q-49 - 12228095

For the following equilibrium in which CO combines with haemoglobin of blood.



Effect of this equilibrium is

- (A) Oxygen-carrying capacity of haemoglobin is reduced
 - (B) oxygen-carrying capacity of haemoglobin is reduced
 - (C) Addition of H_2O makes ΔG more negative
 - (D) temperature has no effect
-

CORRECT ANSWER: A

SOLUTION:

When CO combines with haemoglobin $\Delta G < 0$

i.e., reaction is spontaneous (in forward side). More O_2 is released. Thus O_2 carrying capacity of haemoglobin is

It does not involve H_2O hence no effect of addition of

H_2O also,

$\Delta G =$

$$- 2.303RT \log K$$

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Q-50 - 12228096

Minamata disease is due to pollution of

- (A) arsenic into the atmosphere
- (B) organic waste into drinking water
- (C) oil spill in water
- (D) Industrial waste lead into fishing water

CORRECT ANSWER: D

SOLUTION:

Minamata is caused by Hg poisoning.

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The earth retains its atmosphere, due to

- (A) the special shape of the earth
- (B) the escape velocity being greater than the mean
- (C) the escape velocity being smaller than the mean speed of the molecules of the atmospheric gases.
- (D) the sun's gravitational effect.

CORRECT ANSWER: B

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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 any role in photochemical smog formation.

(D) Photochemical smog is an oxidising agent in character.

CORRECT ANSWER: B

SOLUTION:

Photochemical smog causes irritation in eyes and throat.

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Which of the following are environmentally hazardous refrigerants responsible for ozone depletion in the stratosphere ?

(A) CFC_s

(B) FCC_s

(C) CCF_s

(D) Both (1) and (2)

CORRECT ANSWER: A

SOLUTION:

Chlorofluorocarbons used as refrigerants destroy the ozone layer.

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Mesopause represents the point of temperature inversion between

- (A) troposphere and stratosphere
- (B) troposphere and measosphere
- (C) stratosphere and mesosphere
- (D) mesosphere and thermosphere

CORRECT ANSWER: D

SOLUTION:

The point of temperature inversion between mesosphere and thermosphere is called mesopause.

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Q-55 - 18682989

The temperature in troposphere with altitude

(A) Increase

(B) Decrease

(C) Increases and then decreases

(D) Decreases and then increases

CORRECT ANSWER: 2

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Q-56 - 18682940

The lowest region of atmosphere is

(A) Mesosphere

(B) Troposphere

(C) Stratosphere

(D) Thermosphere

CORRECT ANSWER: 2

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Q-57 - 12227898

what are the effect if a pregnant lady has the habit of smoking?

(A) premature birth

(B) deformed baby

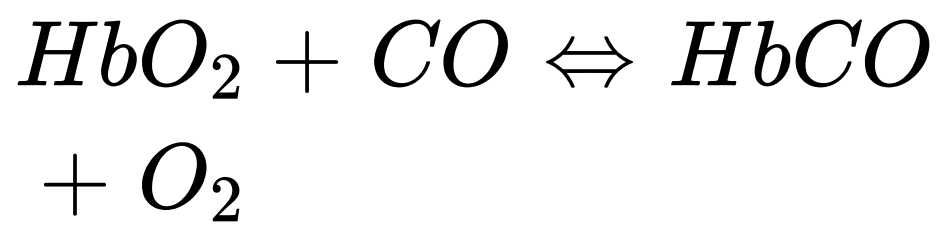
(C) PMT

(D) all of these

CORRECT ANSWER: D

SOLUTION:

If a pregnant lady is in the habit of smoking. *CO* may combine with haemoglobin of blood.



Thus , O_2 carrying capacity of blood is reduced. It causes

- (i) premature birth
- (ii) deformed baby
- (iii) premature termination (*PMT*)- abortion .

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Q-58 - 16267376

The region of the atmosphere above troposphere is known as

- (A) Lithosphere
- (B) Uppersphere
- (C) Ionosphere

(D) Stratosphere

CORRECT ANSWER: D

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Q-59 - 18682938

Hottest region of the atmosphere is

(A) Mesosphere

(B) Stratosphere

(C) Thermosphere

(D) Troposphere

CORRECT ANSWER: 3

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Q-60 - 12227927

Spraying of *DDT* produce pollution of the type:

(A) air

(B) air and wate

(C) air and soil

(D) air, water and soil

CORRECT ANSWER: D

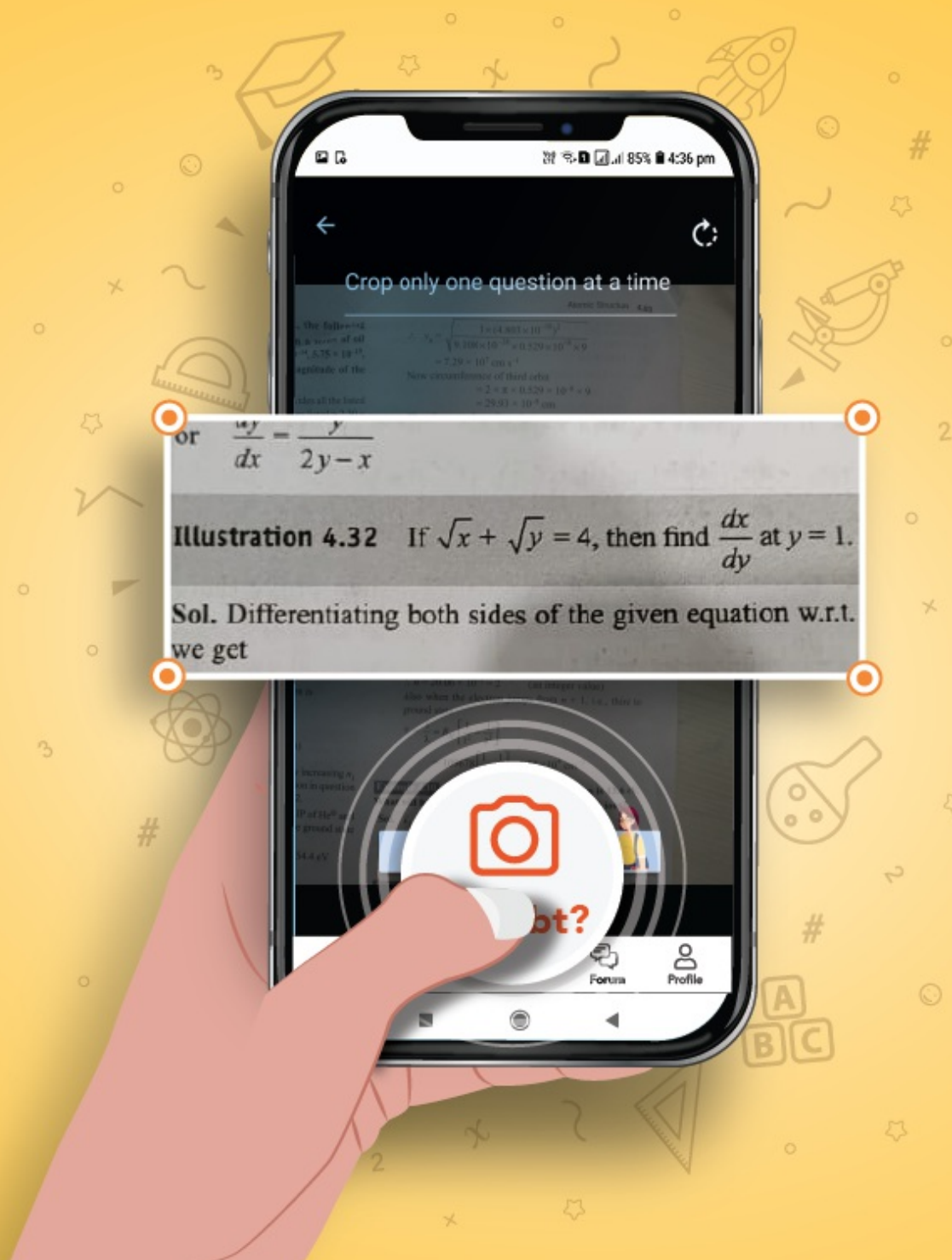
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