

Q1 - 24 January - Shift 1

Which of the following is true about freons ?

- (1) These are chlorofluorocarbon compounds
- (2) These are chemicals causing skin cancer
- (3) These are radicals of chlorine and chlorine monoxide
- (4) All radicals are called freons

Space for your notes:

Q2 - 24 January - Shift 2

Correct statement is :

- (1) An average human being consumes more food than air
- (2) An average human being consumes nearly 15 times more air than food
- (3) An average human being consumes equal amount of food and air
- (4) An average human being consumes 100 times more air than food

Space for your notes:

Q3 - 29 January - Shift 1

Correct statement about smog is

- (1) NO_2 is present in classical smog
- (2) Both NO_2 and SO_2 are present in classical smog
- (3) Photochemical smog has high concentration of oxidizing agents
- (4) Classical smog also has high concentration of oxidizing agents

Space for your notes:

Q4 - 29 January - Shift 2

The concentration of dissolved Oxygen in water for growth of fish should be more than \underline{X} ppm and Biochemical Oxygen Demand in clean water should be less than \underline{Y} ppm. X and Y in ppm are, respectively.

$$(1) \begin{matrix} X & Y \\ 6 & 5 \end{matrix}$$

$$(2) \begin{matrix} X & Y \\ 4 & 8 \end{matrix}$$

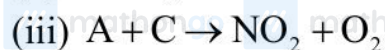
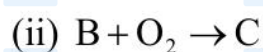
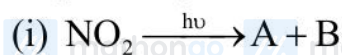
$$(3) \begin{matrix} X & Y \\ 4 & 15 \end{matrix}$$

$$(4) \begin{matrix} X & Y \\ 6 & 12 \end{matrix}$$

Space for your notes:

Q5 - 30 January - Shift 1

Formation of photochemical smog involves the following reaction in which A, B and C are respectively.



Choose the correct answer from the options given below:



Space for your notes:

Q6 - 30 January - Shift 2

The water quality of a pond was analysed and its BOD was found to be 4. The pond has

(1) Highly polluted water

(2) Water has high amount of fluoride compounds

(3) Very clean water

(4) Slightly polluted water

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Q7 - 31 January - Shift 2

#MathBoleTohMathonGo

The normal rain water is slightly acidic and its pH value is 5.6 because of which one of the following ?

- (1) $\text{CO}_2 + \text{H}_2\text{O} \rightarrow \text{H}_2\text{CO}_3$
- (2) $4\text{NO}_2 + \text{O}_2 + 2\text{H}_2\text{O} \rightarrow 4\text{HNO}_3$
- (3) $2\text{SO}_2 + \text{O}_2 + 2\text{H}_2\text{O} \rightarrow 2\text{H}_2\text{SO}_4$
- (4) $\text{N}_2\text{O}_5 + \text{H}_2\text{O} \rightarrow 2\text{HNO}_3$

Space for your notes:

Q8 - 01 February - Shift 1

How can photochemical smog be controlled?

- (1) By using tall chimneys
- (2) By complete combustion of fuel
- (3) By using catalytic converters in the automobiles/industry
- (4) By using catalyst

Space for your notes:

Q9 - 01 February - Shift 2

The industrial activity held least responsible for global warming is :

- (1) manufacturing of cement
- (2) steel manufacturing
- (3) Electricity generation in thermal power plants
- (4) Industrial production of urea

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Answer Key

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(As per Official NTA Key released on 2 Feb)

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Q1 (1) // **Q2 (2)** // **Q3 (3)** // **Q4 (1)**
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Q5 (4) // **Q6 (3)** // **Q7 (1)** // **Q8 (3)**
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Q9 (4)
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Q1 (1)

Fact

Q2 (2)

Theoretical

Q3 (3)

Photochemical smog has high concentration of oxidising agents

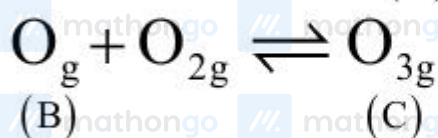
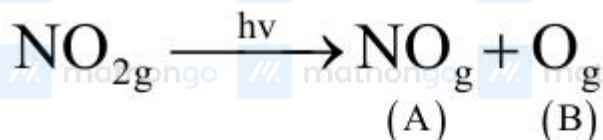
NO₂ is produced from NO and O₃ in the presence of sunlight

Classical smog contain smoke, fog and SO₂ and it is known as reducing smog, as chemically it is reducing mixture

Q4 (1)

The growth of fish gets inhibited if the concentration of dissolved Oxygen in water is less than 6 ppm and Biochemical Oxygen demand in clean water should be less than 5 ppm.

Q5 (4)



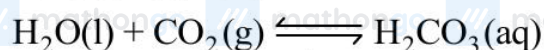
#MathBoleTohMathonGo

Q6 (3)

Clean water as BOD value of < 5 while polluted water has BOD of 15 or more.

Q7 (1)

We are aware that normally rain water has a pH of 5.6 due to the presence of H^+ ions formed by the reactions of rain water with carbon dioxide present in the atmosphere.



Q8 (3)

NCERT (Environmental chemistry)

Q9 (4)

In urea production NH_3 and CO_2 consumed so least responsible for global warming.