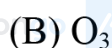


## Questions

MathonGo

## Q1 - 24 June - Shift 2

Some gases are responsible for heating of atmosphere (green house effect). Identify from the following the gaseous species which does not cause it.

*Space for your notes:*

## Q2 - 25 June - Shift 1

The eutrophication of water body results in :

(A) loss of Biodiversity

(B) breakdown of organic matter

(C) increase in biodiversity

(D) decrease in BOD.

*Space for your notes:*

## Q3 - 25 June - Shift 2

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## Questions

MathonGo

Given below are two statements: one is labelled as

**Assertion A** and the other is labelled as **Reason R**

**Assertion A:** Polluted water may have a value of

BOD of the order of 17 ppm.

**Reason R:** BOD is a measure of oxygen required to oxidise both the biodegradable and non-biodegradable organic material in water.

In the light of the above statements, choose the most appropriate answer from the options given below.

(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) A is correct but R is not correct.

(D) A is not correct but R is correct.

Space for your notes:

Q4 - 27 June - Shift 1

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## Questions

MathonGo

Given below are two statements:

*Space for your notes:*

**Statement I:** Classical smog occurs in cool humid climate. It is a reducing mixture of smoke, fog and sulphur dioxide

**Statement II:** Photochemical smog has components, ozone, nitric oxide, acrolein, formaldehyde, PAN etc.

In the light of above statements, choose the **most appropriate** answer from the options give below

- (A) Both **Statement I** and **Statement II** are correct
- (B) Both **Statement I** and **Statement II** are incorrect
- (C) **Statement I** is correct but **statement II** is incorrect
- (D) **Statement I** is incorrect but **Statement II** is correct

**Q5 - 28 June - Shift 1**

Which amongst the following is not a pesticide ?

*Space for your notes:*

- (A) DDT
- (B) Organophosphates
- (C) Dieldrin
- (D) Sodium arsenite

**Q6 - 28 June - Shift 2**

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## Questions

MathonGo

Correct statement about photo-chemical smog is :

Space for your notes:

- (A) It occurs in humid climate.
- (B) It is a mixture of smoke, fog and  $\text{SO}_2$
- (C) It is reducing smog.
- (D) It results from reaction of unsaturated hydrocarbons.

**Q7 - 29 June - Shift 2**

Sulphur dioxide is one of the components of polluted air.  $\text{SO}_2$  is also a major contributor to acid rain. The correct and complete reaction to represent acid rain caused by  $\text{SO}_2$  is :

Space for your notes:

- (A)  $2 \text{SO}_2 + \text{O}_2 \rightarrow 2 \text{SO}_3$
- (B)  $\text{SO}_2 + \text{O}_3 \rightarrow \text{SO}_3 + \text{O}_2$
- (C)  $\text{SO}_2 + \text{H}_2\text{O}_2 \rightarrow \text{H}_2\text{SO}_4$
- (D)  $2 \text{SO}_2 + \text{O}_2 + 2 \text{H}_2\text{O} \rightarrow 2 \text{H}_2\text{SO}_4$

**Q8 - 29 June - Shift 2**

The mixture of chloroxylenol and terpineol is an example of :

Space for your notes:

- (A) antiseptic                      (B) pesticide
- (C) disinfectant                    (D) narcotic analgesic

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Questions

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**Answer Key**

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**Q1 (D)****Q2 (A)****Q3 (C)****Q4 (A)**

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**Q5 (D)****Q6 (D)****Q7 (D)****Q8 (A)**

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## Hints and Solutions

MathonGo

## Q1 (D)

$\text{CH}_4$ ,  $\text{O}_3$  and  $\text{H}_2\text{O}$  causes global warming in Tropospheric level.

$\text{N}_2$  does not cause global warming.

## Q2 (A)

Eutrophication of water body results in loss of Biodiversity.

## Q3 (C)

Clean water have BOD less than 5 ppm while highly polluted water has BOD greater or equal to

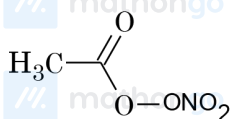
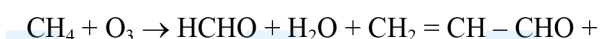
17 ppm. So, assertion is correct.

BOD is measure of oxygen required to oxidise only bio-degradable organic matter. So, reason is false.

## Q4 (A)

Classical smog occurs in cool humid climate. It is a reducing mixture of smoke, fog and sulphur dioxide

Photochemical smog has components, ozone, nitric oxide, acrolein, formaldehyde, PAN etc.



## Q5 (D)

Sodium arsenite is a herbicide.

## Q6 (D)

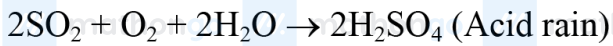
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## Hints and Solutions

MathonGo

Photo chemical smog results from the action of sunlight on unsaturated hydro carbons and nitrogen oxide

Q7 (D)



Q8 (A)

Antiseptic Dettol is mixture of chloroxylenol and terpineol.

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