

## 12. ENVIRONMENTAL CHEMISTRY

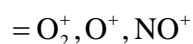
### PREVIOUS EAMCET BITS

1. The chemical entities present in thermosphere of the atmosphere **(E-2009)**

- 1)  $O_2^+, O^+, NO^+$       2)  $O_3$       3)  $N_2, O_2, CO_2, H_2O$       4)  $O_3, O_2^+, O_2$

Ans: 1

Sol: chemicals present in thermosphere

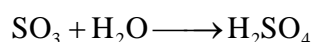


2. Which of the following oxides finally dissolve in water to cause acid rains **(M-2009)**

- 1)  $NO, NO_2$       2)  $NO_2, SO_2$       3)  $NO_2, SO_3$       4)  $N_2O_5, SO_3$

Ans: 4

Sol:  $N_2O_5 + H_2O \longrightarrow 2HNO_3$



3. Bhopal gas tragedy of 1984 was caused by **(E-2007)**

- 1) Carbon monoxide      2) Phosgene  
3) Methyl cyanate      4) Methyl Isocyanate

Ans: 4

Sol: Bhopal tragedy was caused by . Methyl isocyanate

4. Which of the following is not an air pollutant **(M-2007)**

- 1)  $CO$       2)  $SO_2$       3)  $NO$       4)  $N_2$

Ans: 4

Sol:  $N_2$  is not an air pollutant

5.  $CFCl_3$  is responsible for the decomposition of ozone to oxygen. Which of the following reacts with ozone to form oxygen **(E-2006)**

- 1)  $Cl_2$       2)  $Cl^-$       3)  $F^-$       4)  $Cl^\bullet$

Ans: 4

Sol:  $Cl^\bullet + O_3 \longrightarrow ClO^\bullet + O_2$

6. An object is located at a height of 5 km from the surface of the earth. The object is located in which part of atmosphere **(M-2006)**

- 1) Thermosphere      2) Mesosphere      3) Stratosphere      4) Troposphere

Ans: 4

Sol: Troposphere is 0 – 11 km

7. Which of the following is not an air pollutant? **(E-2005)**

- 1)  $N_2$                       2)  $N_2O$                       3) NO                      4) CO

Ans: 1

Sol:  $N_2$  is not an air pollutant. Others are air pollutants

8. In which part of atmosphere, Ozone layer is present? (M-2005)

- 1) Troposphere      2) Thermosphere      3) Mesosphere      4) Stratosphere

Ans: 1

Sol: Ozone layer is present in stratosphere

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

- I) Troposphere      II) Mesosphere      III) Thermosphere (E-2004)

- 1) II, III, I      2) III, II, I      3) I, II, III      4) I, III, II

Ans: 2

Sol: Atmosphere is divided in to four parts

- |                            |                               |
|----------------------------|-------------------------------|
| 1. Troposphere (0 – 11km ) | 2. Stratosphere (11 – 50 km)  |
| 3) Mesosphere (50 –85 km)  | 4) Thermosphere (- 85-500 km) |

Decreasing order of altitude III, II, I

10. What is the reagent used for testing fluoride ion in water? (M-2003)

- 1) alizarin - S      2) quinalizarin      3) phenolphthalein      4) benzene

Ans: 1

Sol: Zirconium – Alizarin S dye is used to test fluoride in water

11. Water is considered to be polluted if the dissolved oxygen (DO) content is less than.....ppm

(E-2003)

- 1) 5                      2) 10                      3) 15                      4) 100

Ans: 1

Sol: Good sample of water has 4 – 6 mg/lit = 4 – 6 ppm of  $O_2$

12. The reagent used in the detection of fluoride in water is (M-2002)

- 1) Zirconium alizarin - S – dye                      2) Baeyer's reagent  
3) Soda lime                      4) Phenolphthalein

Ans: 1

Sol: Zirconium – Alizarin S dye is used to test fluoride in water

13. Fluorosis disease is caused due to the reaction .... with excess of fluoride in the body (E-2002)

- 1) Ca                      2) Mg                      3) Fe                      4) K

Ans: 1

Sol:  $\text{Ca} + \text{F}_2 \longrightarrow \text{CaF}_2$

14. Which one of the following regions of atmosphere contains Ozone? **(M-2001)**

- 1) Troposphere      2) Thermosphere      3) Mesosphere      4) Stratosphere

Ans: 4

Sol: In atmosphere stratosphere mainly consist of ozone layer.

15. Which one of the following is mainly responsible for depletion of ozone layer? **(E-2001)**

- 1) Methane      2) Carbon dioxide      3) Water      4) Chloro fluoro carbons

Ans: 4

Sol: Important compounds which deplete the ozone layer are

- 1) Chloro-fluorocarbon 2) Nitric oxide      3) Chlorine

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