

DPP

DAILY PRACTICE PROBLEMS

Class : XIth

Date :

Subject : CHEMISTRY

DPP No. : 1

Topic :- Environmental Chemistry

- The smog is essentially caused by the presence of
 - O_2 and O_3
 - O_2 and N_2
 - Oxides of sulphur and nitrogen
 - O_3 and N_2
- Temperature of troposphere decreases with altitude. This is because of
 - High pressure of air
 - Gases present in air
 - Lower density of air
 - All of these
- Which of the following is a primary pollutant?
 - CO
 - PAN
 - Aldehydes
 - H_2SO_4
- The gas that is not considered as a 'green house gas' is
 - CO_2
 - CH_4
 - O_2
 - O_3
- Presence of high concentration of ozone and smog in atmospheric air causes:
 - Embrittlement and decrease of folding resistance of paper
 - Cracking of rubber products
 - Fading of dye on textiles
 - Damage of electrical insulator on high tension power line.
- Which of the following statements is not false?
 - SO_2 does not affect larynx
 - SO_2 is more harmful air pollutant than SO_3
 - NO_2 is more toxic to living tissues than NO
 - NO_x do not play any role in photochemical smog
- Photochemical smog always contains
 - O_3
 - CO
 - CO_2
 - CH_4
- Which of the following is not a soil pollutant?
 - Polythene bags
 - Pesticides
 - Detergents
 - Nitrate and phosphate fertilizers
- Among the following statements which one is incorrect?
 - Suspended particulate matter (SPM) is an important pollutant released by diesel vehicles.
 - Soot particles (size $< 5 \mu$) cause fibrosis of the lung lining
 - H_2SO_4 particulates have size of 500-1000 nm.
 - Photochemical smog is formed by oxides of sulphur, smoke and dust particles.
- Sewage water is purified by
 - Microorganism
 - Light
 - Fishes
 - Aquatic plants
- The number of ozone molecules converted into oxygen by one molecule of chlorofluorocarbon compound is
 - One hundred (approximately)
 - Ten thousand (approximately)
 - Hundred thousand (approximately)
 - Only one
- Use of chlorofluoro carbons is not encouraged because
 - They are harmful to the eyes of people that use it.
 - They damage the refrigerators and air conditioners.



- c) They eat away the ozone in the atmosphere.
d) They destroy the oxygen layer.
13. An important product in the ozone depletion by chlorofluorocarbons is
a) Cl_2 b) OCl c) OF_2 d) O_2F_2
14. The size of particulates of H_2SO_4 fog lies in the range:
a) 5–100 nm b) 100–500 nm c) 500–1000 nm d) 1000–10,000 nm
15. Which one of the following can cause depletion of ozone?
a) H_2S b) NO c) Smoke d) Aerosols
16. Oxides of sulphur and nitrogen are important pollutants of
a) Water b) Air c) Soil d) All of these
17. Measurement of rate of oxygen utilisation by a unit volume of water over a period of time is to measure
a) Fermentation b) Biogas generation
c) Biosynthetic pathway d) Biological oxygen demand
18. The most abundant pollutant is
a) Ethane b) Methane c) Propane d) Butane
19. Which of the following types of pollution is caused by invisible pollutants?
a) Thermal pollution b) Noise pollution c) Radioactive pollution d) All of these
20. Which of the following statements is not true?
a) Ammonia acts as sink for NO_x
b) Limestone acts as sink for SO_x
c) The average residence time of NO is one month
d) SO_x can be removed from flue gases by passing through a solution of citrate ions

