

DPP

DAILY PRACTICE PROBLEMS

Class : XIth
Date :

Solutions

Subject : CHEMISTRY
DPP No. : 2

Topic :- Environmental Chemistry

- 2 (a)
In stratosphere, chlorofluorocarbons (CF₂Cl₂, CFCl₂) etc. are responsible for the depletion of ozone layer
- 3 (c)
When a pesticide such as DDT passes from lower tropic level to higher level, through food chain, the amount of pesticide per unit weight of organism increases due to accumulation in fat. This process is called biomagnification
- 4 (d)
PSCs (polar stratospheric clouds) of type II provide a surface for the conversion of chlorine nitrate (ClONO₂) and HCl into HOCl and Cl₂
- $$\text{ClONO}_2 + \text{H}_2\text{O} \xrightarrow{\text{PSCs}} \text{HOCl} + \text{HNO}_3$$
- $$\text{ClONO}_2 + \text{HCl} \rightarrow \text{Cl}_2 + \text{HNO}_3$$
- 5 (d)
ClONO₂ + H₂O → HOCl + HNO₃
ClONO₂ + HCl → Cl₂ + HNO₃
HOCl and Cl₂ can get converted into chlorine radicals and thus, responsible for O₃ depletion.
- 9 (b)
The term acid rain was coined by 'Robert Augus'
- 15 (a)
Ozone layer is found in the stratosphere region of atmosphere. It prevents harmful UV radiation from coming to earth.
- 19 (b)
In, stratosphere, at about 20 to 40 km, there is a part of relatively high ozone concentration, called ozone layer

ANSWER-KEY										
Q.	1	2	3	4	5	6	7	8	9	10
A.	A	A	C	D	D	A	D	A	B	A
Q.	11	12	13	14	15	16	17	18	19	20
A.	B	B	D	A	A	C	C	C	B	D



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