



		DPP			
	CLASS : XIth DATE :	DAILY PRACTICE PROBLEMS	SUBJECT : CHEMISTRY DPP No. : 3		
	Topic :-	THE P-BLOCK ELE	MENTS-2		
1	xenon and oxygen are almost ide	entical. gges <mark>ted that since o</mark> xyger	of oxygen and the molecular diameter on combines with PtF <sub>6</sub> , so xenon should		
2	(d)	from central atom due t	o increasing bond length and thus, lone		
3	(d) CO is neutral.		gres.		
4	(d) $Ca_3(PO_4)_2 + 3SiO_2 \rightarrow 3CaSiO_3 + 2P_2O_5 + 10C \rightarrow P_4 + 10C$				
5	(b) $NO_2$ is a brown coloured gas				
6	(c) $KI + I_2 \rightarrow KI_3$				
7	(d) $SO_2$ , $H_2O$ ans $O_3$ all of these act as	s bleaching agent.			
8	<b>(a)</b> Allotropes have different crystal	line nature.			
9 10	(a) P exists as $P_4$ , Sb exists as Sb <sub>4</sub> . (a)		EARN		
10	He was detected first in solar atr	nosphere.			
11	<b>(b)</b> The electrolyte used in batter <mark>y i</mark> s	s 38% H <sub>2</sub> SO <sub>4</sub> .			
12	( <b>b)</b> Cl <sub>2</sub> is used in preparation of DD	<b>F</b> -an insecticide.			
13	(a) Due to H-bonding, HF exists in d		te.		
14	<b>(b)</b> Halon-1301 is CF <sub>3</sub> Br. The first fi	gure 1 represents no. of	C atoms, the second figure represents n ns and last figure 1 represents the Br		
15	(a) It is a test for proteins.				
16	(a) Both VoE and IE <sup>-</sup> are linear and		as Va and Lundarga an <sup>3</sup> d hybridication		

Both  $XeF_2$  and  $IF_2^-$  are linear species but the central atoms Xe and I undergo  $sp^3d$  hybridisation with all the three equatorial positions occupied by lone pairs of electrons (d)



(d)

(d)

## **Smart DPPs**

Haber process — NH<sub>3</sub>, birkeland –eyde process — HNO<sub>3</sub>, solvay process — Na<sub>2</sub>CO<sub>3.</sub>

18

In rest all molecules the central non-metal atom possesses lone pair of electron which gives rise to distorted geometry.

## 19

 $2\text{KClO}_3 + \text{I}_2 \longrightarrow 2\text{KIO}_3 + \text{Cl}_2$  **(b)** 

20

In VIA gp, sulphur possesses the maximum tendency for catenation. The catenation order : C > Si  $\approx$  S > P > N > O



ANSWER-KEY												
Q.	1	2	3	4	5	6	7	8	9	10		
<b>A.</b>	D	D	D	D	В	C	D	A	Α	С		
Q.	11	12	13	14	15	16	17	18	19	20		
<b>A.</b>	В	В	А	В	А	А	D	D	D	В		
							0					
SMARTLEARN												
COACHING												