

CLASS : XIth

DATE :





DPP DAILY PRACTICE PROBLEMS

> SUBJECT : CHEMISTRY DPP No. : 1

Topic :- THE P-BLOCK ELEMENTS-2

1	(c)
	N, P are non-metals, As, Sb are metalloids or semimetals, Bi is metal in gp. 15
2	(d)
	HF is the weakest acid.
3	(c)
	Follow contact process for H ₂ SO ₄ .
4	(d)
	Metallic character increases do <mark>wn the gp.</mark>
5	(c)
	$10HNO_3 + I_2 \rightarrow 2HIO_3 + 10NO_2 + 4H_2O$
6	(b)
	Noble gases have comple <mark>tely filled electronic configuration of</mark> outermost shell and thus, have no
	scope for addition of an electron in them.
7	(a)
	0_3 is antibacterial in nature and thus, used as sterilizing agent \cdot
	Because in KMnO ₄ , oxidation state of Mn is $+7$. Hence, it is the highest oxidation state of Mn, so
	$KMnO_4$ is not oxidized by ozone.
8	(b)
	Welding of Mg is done in the atmosphere of He due to its inert and non-inflammable nature
9	
0.8	Rn is radioactive.
\geq	
10	(c)
10	$2KI + H_2O + O_3 \longrightarrow 2KOH + O_2 + I_2$
	(a) oxidised
	$2FeSO_4 + H_2SO_4 + O_3 \longrightarrow Fe_2(SO_4)_3 + H_2O + O_2$
	(b)oxidised
	(c) KMnO ₄ +O ₃ \rightarrow no reaction
	(d)
	2K₂MnO₄ + H₂SO₄ + O₃ → 2KOH + 2KMnO₄
	oxidised
	$+ K_2 SO_4 + H_2 O + O_2$





12	(a)
	Fluorine and chlorine are more electronegative than sulphur, so they can displace it form it salt
13	(c)
	It is a reason for the given fact.
14	(d)
	Al becomes passive in HNO ₃ .
15	(a)
	It reacts with rest of all reagents.
16	(a)
	Br has the configuration.
	$1s^2$, $2s^22p^6$, $3s^23p^63d^{10}$, $4s^24p^5$
17	(a)
	Dipole moment of gp. 15 hydrides decreases down the gp.
18	(b)
	$2CaO + 2Cl_2 \rightarrow CaCl_2 + Ca(ClO)_2$
19	(d)
	Oxides of nitrogen are acidic and <mark>are dissolved in KOH</mark> (alkali).
20	(b)
	Compounds of Xe, Kr and Rn <mark>are known.</mark>

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

COACHING