## P-BLOCK ELEMENTS EXERCISE

1.		oxygen atoms are present	11.	PH <sub>3</sub> can be formed in					
	in $P_4O_{10}$ ?	(2) 2 (4) 5		(1) hydrolysis of calc	cium phospinae				
•		(3) 2 (4) 5		(2) heating H <sub>3</sub> PO <sub>3</sub>	JaOH in inert atmosphere				
2.		ng phosphorus is the most		,	VaOH in inert atmosphere				
	reactive?	(2) ***	1,	(4) All	balana asid D				
		us(2) White phosphorus	12.	A (black compound)	$\xrightarrow{\text{na logen acid}} \mathbf{B}$				
		(4) Violet phosphorus		(green yellow gas)					
3.	Which of the following	ng can be hydrolysed?		$B(excess) \xrightarrow{NH_3} C$	(unstable trihalide)				
	(1)TeF <sub>6</sub>	(2) NCl <sub>3</sub>		Correct statement is					
	(3) SF <sub>6</sub>	(4) Both 1 & 2		(1) C is PCl <sub>3</sub>	(2) halogen acid is HI				
4.	Which of the following	ng methyl diboranes does		(3) B is Cl <sub>2</sub>	(4) A is KMnO <sub>4</sub>				
	not exist ?		13.	Beryl is a type of					
	(1) $B_2H_4(CH_3)_2$	(2) $B_2H_5(CH_3)$		(1) chain silicate	(2) cyclic silicate				
	(3) $B_2H_2(CH_3)_4$	(4) $B_2H(CH_3)_5$		(3) sheet silicate	(4) 3-D silicate				
5.	Which of the followi	ng is a sesquioxide?	14.	Order of pK <sub>a</sub>					
	$(1) N_2O_4$	(2) $N_2O_3$		(1) HOCl > HClO <sub>2</sub> > HClO <sub>3</sub> > HClO <sub>4</sub>					
	(3) N <sub>2</sub> O	(4) N2O5		(2) $HClO_4 > HClO_3 > HClO_2 > HOCl$					
6.	-	ng does not form during		(3) $HOCl > HClO_3 > HClO_4 > HOCl$					
	hydrolysis of XeF <sub>6</sub> ?	ing does not roim during	1.5	(4) HClO <sub>3</sub> > HClO <sub>2</sub> > HOCl > HClO <sub>4</sub> Which of the following compound will not give					
	(1) XeO <sub>3</sub>	(2) XeOF <sub>4</sub>	15.	Which of the following compound will not					
	(3) XeO2F2	(4) XeOF <sub>3</sub>		$NH_3$ on heating (1) $(NH_4)_2SO_4$	(2) (NH.) CO				
_				(3) $NH_4NO_2$					
7.	Mixture used in Holn		16.	On hydrolysis $CaC_2$ gives a gas which on					
		(2) CaCl <sub>2</sub> and Ca <sub>3</sub> P <sub>2</sub>		trimerisation gives					
	(3) $CaC_2$ and $Ca_3N_2$	(4) $CaC_2$ and $Ca_3P_2$		(1) C2H2	$(2) C_6 H_6$				
8.	HNO <sub>2</sub> acts as an/a			(3) C2H4	(4) C3H8				
	(1) acid	(2) oxidising agent	17.	$P+Cl_2 \rightarrow A, P + Excess Cl_2 \rightarrow B$					
	(3) reducing agent	(4) All			of A and B are respectively				
•				(1) $H_3PO_2$ , $H_3PO_3$	3 1 3 3				
9.	The nitrogen oxide that does not contain N-N			(3) H <sub>3</sub> PO <sub>3</sub> , H <sub>3</sub> PO <sub>4</sub> (4) H <sub>3</sub> PO <sub>2</sub> , H <sub>3</sub> PO <sub>4</sub> Which among the following order of given					
	bond are-		18.	properties is incorrect					
	(1) N2O	(2) N2O3		(1) $HOCl > HClO_2 >$	HClO <sub>3</sub> > HClO <sub>4</sub> – oxidising nature				
	$(3) N_2O_4$	(4) N2O5		(2) $Cl > F > Br > I$	Oxidising nature				
10.	Bleaching action of S	SO <sub>2</sub> is due to–		- electron a					
	(1) reduction	(2) oxidation		(3) $Cl_2 > Br_2 > I_2 > F_2$ - bond dissociation energy					
				(4) HF < HCl < HBr	< HI				
	(3) hydrolysis	(4) acidic nature			<ul> <li>acidic nature</li> </ul>				

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	The state of the s								
19.	_	ng the central atoms are	30.	In which of the following oxy acid of sulphur sulphur atoms has different oxidation states					
	directly bonded in			_					
	(1) N2O5	2 5		(1) H2S4O6	(2) H2S2O8				
	$(3) P_4 O_{10}$	(4) Mn2O7		(3) H2S2O4	(4) All				
20.		ilicones can be controlled	31.	Which of the following is most acidic?					
	by			(1) Cl <sub>2</sub> O <sub>7</sub>	(2) SO <sub>3</sub>				
	(1) (CH <sub>3</sub> ) <sub>3</sub> SiCl	J		(3) $P_2O_5$	(4) SiO2				
	(2) Addition of Cu p		22	2 3					
	<ul><li>(3) Elevation of temp</li><li>(4) None of these</li></ul>	peature	32.	Which of the follow					
21.		ng statement is incorrect		(1) Na2O2	(2) CaO <sub>2</sub>				
21.	regarding B <sub>2</sub> H <sub>6</sub> ?	ing statement is incorrect		(3) PbO <sub>2</sub>	$(4) H_2O_2$				
	(1) On methylation it	gives B.H(CH.).	33.	In which of the foll	owing reaction, phosphine				
	(2) It has two 2e-3C	2 5 5		is not obtained as p	roduct				
		mum six atoms in a plane		(1) $Ca_3P_2 + HCl \longrightarrow$ (2) $P_4 + NaOH \longrightarrow$					
	(4) It has four 2e <sup>-</sup> 2C	-							
22.	Red and white phosp	horus are similar in	34.	(3) $H_3PO_4 \xrightarrow{\Delta}$ (4) $H_3PO_3 \xrightarrow{\Delta}$ Correct statement about boric acid is					
	(1) smell	(2) solubility in CS <sub>2</sub>	J <b>-7.</b>						
	(3) Hybridisation of l	P (4) Stability		(1) boron is sp <sup>3</sup> hyb					
23.	<del></del>	ng is strongest oxidizing		(2) boric acid is triprotic acid					
	agent			(3) it is used in the treatement of eye infection					
	(1) HOCl	(2) HClO <sub>2</sub>		(4) It forms covalen	t network				
	$(3) \text{ HClO}_3$	(4) HClO <sub>4</sub>	35.	Which of the follo	owing oxide is acidic in				
24.	In which species O-0	O bond is present	33.	nature?					
	(1) $S_2O_8^{-2}$	(2) $S_4O_6^{-2}$			<sub>3</sub> (3) Ga <sub>2</sub> O <sub>3</sub> (4) In <sub>2</sub> O <sub>3</sub>				
			36.						
	(3) $SO_3^{-2}$	(4) $S_2O_7^{-2}$	30.		y used reducing agent is				
25.	Glass is soluble in			51	$_{2}$ (3) SnCl <sub><math>_{4}</math></sub> (4) SnCl <sub><math>_{2}</math></sub>				
	(1) aqua ragia	(2) H2SO4	37.		owing are peroxy-acid of				
26	(3) HF	(4) HClO <sub>4</sub>		sulphur					
26.	Paramagnetic oxide i			(1) $H_2SO_5$ and $H_2S_2O_8$					
	(1) NO	$(2) N_2O_4$		(2) $H_2SO_5$ and $H_2S_2O_7$					
25	$(3) P_4O_6$	$(4) N_2O_5$		(3) $H_2S_2O_7$ and $H_2S$	$_2$ O $_8$				
27.		et act as a reducing agent		(4) $H_2S_2O_6$ and $H_2S$	$_{2}O_{7}$				
	(1) NO	(2) NO <sub>2</sub>	38.	The element which	forms neutral as well as				
Acres	$(3) N_2O$	(4) N2O5		acidic oxide is :-					
28.	Borax bead test is not given by			(1) Sn (2) Si	(3) C (4) P				
	(1) An aluminium salt (2) A cobalt salt								
20	(3) A copper salt	(4) A nickel salt	39.	P <sub>4</sub> O <sub>10</sub> has short and long P–O bonds. The number of short P–O bonds in this compound					
29.		g endothermic nature and		is:-	o condo in uno compound				
	reduction of halogen (1) $F_2 + \frac{1}{2}O_2 \rightarrow F_2O$	18		(1) 1 (2) 2	(3) 3 (4) 4				
	$(1) \Gamma_2 + 72O_2 \rightarrow \Gamma_2O$ $(2) \text{ Cl}_2 + O_2 \rightarrow \text{Cl}_2O$		40						
	(2) $Cl_2 + Cl_2 \rightarrow Cl_2 O$ (3) $F_2 + H_2 O \rightarrow 2HF$	+ ½O	40.	_	n be obtained by heating:-				
	(4) None of the above	-		(1) KNO3   (2) Pb(NO3)2					
	(1) Itolic of the abov	•		$(3) NH_4NO_3$	(4) All of these				

**P-BLOCK ELEMENTS** NEET  $MF + XeF_4 \rightarrow 'A' (M - alkali metal)$ In the hydrolysis of ICl, the products are: 41. 52. hybridisation of A and shape of A is :-(1) HI + HCI(2) HI + HOCI (1) sp<sup>3</sup>d, Trigonal bipuramidal (3) HCI + HOI (4) HOCI + HOI Which of the following compounds are the 53. (2) sp<sup>3</sup>d<sup>3</sup>, distoted octahedral common products obtained in the hydrolysis (3) sp<sup>3</sup>d<sup>3</sup>, pentagonal planer of XeF<sub>6</sub> and XeF<sub>4</sub>? (4) No compound formed at all (1) XeO,F, (2) HF Which oxide is most acidic :-42. (3) XeO<sub>3</sub>(4) Both (2) and (3) (1) Al<sub>2</sub>O<sub>2</sub>(2) Na<sub>2</sub>O 54. Find the incorrect match: (4) CaO (3) MgO (1) Al, Cl<sub>6</sub> : 3C-4e 43. Cl<sub>2</sub>O<sub>6</sub> is an anhydride of :bond is present (2)  $Al_2(CH_3)_6$ : All carbon atoms are (1) HClO<sub>3</sub> sp<sup>3</sup>-hybridized (2) HClO<sub>2</sub> (3) I<sub>2</sub>Cl<sub>6</sub> : Nonplanar (3) HClO<sub>4</sub> (4) Al<sub>2</sub>Br<sub>6</sub> : Nonpolar (4) Mixed anhydride of HClO<sub>3</sub> & HClO<sub>4</sub> 55. Which of the following is not a Lewis acid? Carbogen is a mixture of 44. (1)  $\operatorname{SiF}_{4}$  (2)  $\operatorname{FeCl}_{3}$  (3)  $\operatorname{BF}_{3}$  $(4) C_{2}H_{4}$ (1) O, & H, (2) CO, & O, Thallium shows different oxidation states 56. (3) O<sub>2</sub> & Air (4) O<sub>2</sub> & Ne because: 45. A black sulphide when treated with ozone (1) Of its high reactivity becomes white, the white compound is :-(2) Of inert pair of electrons (1)  $ZnSO_4$ (2) CaSO<sub>4</sub> (3) Of its amphoteric nature (4) PbSO<sub>4</sub> (3) BaSO<sub>4</sub> (4) It is a transition metal An example of tetrabasic acid is :-46. 57. H<sub>3</sub>BO<sub>3</sub> is: (1) Orthophosphorus acid (1) Monobasic and weak Lewis acid (2) Orthophophoric acid (2) Monobasic and weak bronsted acid (3) Metaphosphoric acid (3) Monobasic acid and strong Lewis acid (4) Pyrophosphoric acid (4) Tribasic acid and weak bronsted acid The reducing power of divalent species 47. 58. What is formula for carbon suboxide? decreases in the order is :-(1) CO (2) CO<sub>2</sub> (1) Ge > Sn > Pb(2) Sn > Ge > Pb (3) Pb > Sn > Ge $(3) C_2O_4$  $(4) C_{2}O_{2}$ (4) None of these **59.** CCl<sub>4</sub> is used as fire extinguisher because: Basicity of phosphinic acid is 48. (1) Its m.pt. is high (2) 2(3) 3(1) 1(4) 4(2) It forms covalent bond Empirical formula of Bleaching powder is :-49. (3) Its b.pt. is low (1) Ca(OH), (2) CaOCl, (4) It gives incombustible vapours (4) CaClO<sub>3</sub> (3) Ca(OCl)<sub>2</sub> 60. Marsh gas contains: 50. Which of the following silicate is called  $(1) CH_{4}$ (2) CO<sub>2</sub> disilicate?  $(3) C_{2}H_{6}$  $(4) N_{2}$ (1) Orthosilicate (2) Pyrosilicate 61. Carborundum is: (3) Single-chain silicate(4) None of these (1) Al<sub>2</sub>O<sub>3</sub> (2) SiC (3) BF<sub>3</sub> (4) B<sub>4</sub>C The cationic part of solid XeF<sub>6</sub> is having the 51. **62.** The acid which contains a peroxo linkage is: "\_\_\_\_\_" shape: (1) Sulphurous acid (2) Pyrosulphuric acid (1) Linear (2) Angular (3) Dithionic acid (4) Caro's acid (3) Square pyramidal (4) Tetrahedral

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- In SiF<sub>6</sub><sup>2-</sup> and SiCl<sub>6</sub><sup>2-</sup>, which one is known and why?
  - (1)  $SiF_6^{2-}$  because of small size of F
  - (2) SiF<sub>6</sub><sup>2-</sup> because of large size of F
  - (3) SiCl<sub>6</sub><sup>2-</sup> because of small size of Cl
  - (4) SiCl<sub>6</sub><sup>2-</sup> because of large size of Cl
- The stability of dihalides of Si, Ge, Sn, and Pb 64. increase stability in the sequence:
  - (1)  $PbX_2 < SnX_2 < GeX_2 < SiX_2$
  - (2)  $GeX_2 < SiX_2 < SnX_2 < PbX_3$
  - (3)  $SiX_2 < GeX_2 < PbX_2 < SnX_2$
  - (4)  $SiX_2 < GeX_2 < SnX_2 < PbX_3$
- Products formed when Pb(NO<sub>3</sub>)<sub>2</sub> is heated are: **65**.
  - (1) PbO,  $N_{2}$ ,  $O_{2}$
- (2)  $Pb(NO_{2})_{2},O_{3}$
- (3) PbO,NO,,O,
- (4) Pb,  $N_2$ ,  $O_2$
- Silver chloride dissolves in excess of NH<sub>4</sub>OH. 66. The cation present in solution is:
  - (1)  $Ag^{+}$
- (2)  $[Ag(NH_2)_4]^+$
- (3)  $[Ag(NH_3)_2]^+$
- (4)  $[Ag(NH_3)_6]^+$
- **67.** The catalyst used in the manufacture of ammonia by Haber's process is:
- (2)  $Fe_{2}O_{3}$  (3)  $CuCl_{2}$  (4)  $V_{2}O_{5}$
- 68. Industrial preparation of nitric acid by Ostwald's process involves:
  - (1) Oxidation of NH<sub>3</sub>
  - (2) Reduction of NH<sub>2</sub>
  - (3) Hydrogenation of NH<sub>3</sub>
  - (4) Hydrolysis of NH<sub>2</sub>
- When zinc reacts with very dilute nitric acid it 69. produces:
  - $(1) NH_4NO_3$
- (2) NO
- (3) NO<sub>2</sub>
- $(4) H_{2}$
- Which of the following oxides of nitrogen is 70. the an-hydride of nitrous acid?
  - (1) NO
- $(2) N_2O_3$
- $(3) N_{2}O_{4}$
- $(4) N_{2}O_{5}$

- 71. Polar oxide of carbon is :-
  - (1) CO
- (2) CO<sub>2</sub>
- $(3) C_3O_2$
- (4) Both 1 and 3
- 72. Aqueous solution of ammonia consists of :-
  - (1) H<sup>+</sup> only
- (2) OH<sup>-</sup> only
- (3) NH<sub>4</sub> only
- (4) NH<sub>4</sub><sup>+</sup> and OH<sup>-</sup>
- 73. Phosphine, acetylene and ammonia can be formed by treating water with:
  - (1)  $Mg_3P_2$ ,  $Al_4C_3$ ,  $Li_3N$
  - (2)  $Ca_3P_2$ ,  $CaC_2$ ,  $Mg_3N_2$
  - (3) Ca<sub>2</sub>P<sub>2</sub>, Be<sub>2</sub>C, NH<sub>4</sub>NO<sub>2</sub>
  - (4) Ca<sub>3</sub>P<sub>2</sub>,Mg<sub>2</sub>C<sub>3</sub>,NH<sub>4</sub>NO<sub>3</sub>
- 74. Atoms in P<sub>4</sub> molecule of white phosphorus are arranged regularly in the following way:
  - (1) At the corners of a cube
  - (2) At the corners of an octahedron
  - (3) At the corners of a tetrahedron
  - (4) At the center and corners of a tetrahedron
- 75. Which is formed when K<sub>2</sub>Cr<sub>2</sub>O<sub>7</sub>, CaCl<sub>2</sub>, and conc. H<sub>2</sub>SO<sub>4</sub> are heated?
  - (1)  $Cr_2(SO_4)_3$
- (2) CrCl<sub>3</sub>
- (3) CrO<sub>2</sub>Cl<sub>2</sub>
- $(4) K_2 CrO_4$
- 76. Which one of the following reactions does not
  - (1)  $F_2 + 2Cl^- \longrightarrow 2F^- + Cl_2$
  - (2)  $Cl_2 + 2F^- \longrightarrow 2Cl^- + F_2$
  - (3)  $Br_2 + 2I^- \longrightarrow 2Br^- + l$ ,
  - (4)  $Cl_2 + 2Br^- \longrightarrow 2Cl^- + Br_2$
- 77. BCl<sub>3</sub> does not exist as dimer but BH<sub>3</sub> exists as dimer (B<sub>2</sub>H<sub>6</sub>) because:
  - (1) Chlorine is more electronegative than hydrogen
  - (2) There is  $p_{\pi} p_{\pi}$  back bonding in BCl<sub>3</sub>, but BH, does not contain such multiple bonding
  - (3) Large sized chlorine atoms do not fit in between the small boron atoms, whereas small-sized hydrogen atoms fit between boron atoms
  - (4) None of these

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ionic?

 $(1) I_4O_0$ 

 $(2) I_{2}O_{5}$ 

(3) BrO<sub>2</sub>

(4) CℓO<sub>3</sub>

(3) Bronsted base and Bronsted acid

(4) None of these

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- **99.** Antichlor is a compound:
  - (1) Which absorbs chlorine
  - (2) Which removes excess of Cl<sub>2</sub> from a material
  - (3) Which liberates Cl, from bleaching powder
  - (4) Which acts as a catalyst in the manufacture of Cl,
- **100.** Which of the following statements regarding orthoboric acid (H<sub>2</sub>BO<sub>2</sub>) is false?
  - (1) It acts as a weak monobasic acid
  - (2) It is soluble in hot water
  - (3) It has a planar structure
  - (4) It acts as a tribasic acid
- **101.** Which of the following oxides is acidic in nature?
  - (1) B<sub>2</sub>O<sub>3</sub> (2) Al<sub>2</sub>O<sub>3</sub> (3) Ga<sub>2</sub>O<sub>3</sub> (4) ZnO
- **102.** Catenation i.e., linking of similar atoms depends on size and electronic configuration of atoms. The tendency of catenation in group 14 elements follows the order
  - (1) C > Si > Ge > Sn
- (2)  $C \gg Si \gg Ge \approx Sn$
- (3) Si > C > Sn > Ge
- (4) Ge > Sn > Si > C
- **103.** Cement, the important building material is a mixture of oxides of several elements. Besides calcium, iron and sulphur, oxides of elements of which of the group(s) are present in the mixture?
  - (1) Group 2
  - (2) Groups 2, 13 and 14
  - (3) Groups 2 and 13
  - (4) Groups 2 and 14

- **104.** The possible oxidation state of Tl are:
  - (1) + 1 and +2
- (2) + 2 and +3
- (3) + 1 and -1
- (4) + 1 and + 3
- **105.** Nitrogen gas is liberated by thermal decomposition of :
  - (1) NH<sub>4</sub>NO<sub>2</sub>
- (2) NaN<sub>3</sub>
- $(3) (NH_4)_2 Cr_2 O_7$
- (4) All
- **106.**  $BX_3 + NH_3 \xrightarrow{R.T.} BX_3 \cdot NH_3 + Heat$  of adduct formation ( $\Delta H$ ),  $\Delta H$  is maximum for (Numerical value)
  - (1) BF<sub>3</sub>
- (2) BCl<sub>2</sub>
- (3) BBr<sub>3</sub>
- (4) BI<sub>3</sub>
- **107.** Which of the following oxyacid contains both P–H and P–P bond simultaneously?
  - (1) H<sub>4</sub>P<sub>2</sub>O<sub>5</sub>
- (2)  $H_4P_2O_7$
- $(3) H_4 P_2 O_6$
- (4) None
- **108.**  $Na_2B_4O_7 \cdot 10H_2O \xrightarrow{\text{Heat}} X + NaBO_2 + H_2O$ ,

$$X + Cr_2O_3 \xrightarrow{\text{Heat}} Y X \text{ and } Y \text{ are } :$$

- (1) Na<sub>3</sub>BO<sub>3</sub> and Cr(BO<sub>2</sub>)<sub>3</sub>
- (2)  $Na_2B_4O_7$  and  $Cr(BO_2)_3$
- (3)  $B_2O_3$  and  $Cr(BO_2)_3$
- (4) B<sub>2</sub>O<sub>3</sub> and CrBO<sub>3</sub>

## **P-BLOCK ELEMENTS**

## **ANSWER KEY**

Que.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Ans.	1	2	4	4	2	4	4	4	4	1	4	3	2	1	3
Que.	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Ans.	2	3	3	2	1	1	3	1	1	3	1	4	1	3	1
Que.	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
Ans.	1	3	3	3	1	4	1	3	4	2	3	1	4	2	4
Que.	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
Ans.	4	1	1	2	2	3	3	4	3	4	2	1	4	4	1
Que.	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75
Ans.	2	4	1	4	3	3	2	1	1	2	1	4	2	3	3
Que.	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Ans.	2	3	2	1	1	1	4	1	1	1	3	1	1	3	4
Que.	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105
Ans.	1	1	4	1	4	3	2	1	2	4	1	2	2	4	4
Que.	106	107	108												
Ans.	4	4	3												