

VTH GROUP

1	In a molecule	of phosphorus (V)	oxide there are
	_	_	_

- 1) 4 P-P, 10 P-O and 4 P=O bonds
- 1) 4 P-P, 10 P-O and 4 P-O bonds
- 3) 2 P-O and 4 P=P bonds

- 2) 12 P-O and 4 P=O bonds
- 4) 6 P-P; 12 P-O and 4 P=P bonds
- 2 conc.HNO₃ reacts with iodine to give
 - 1) HI

2) HOI

- 3) HOIO₂
- 4) HOIO₃
- **3** A: Although PF₅, PCl₅ are known the pentahalides of Nitrogen have not been observed
 - R: Phosphorus has lower electro-negativity than Nitrogen
 - 1. A and R are true and R is the correct explanation of A
 - 2. A and R are true and R is not the correct explanation of A
 - 3. A is true, R is false
 - 4. Both A and R are false
- 4 Which of the following order is correct
 - (1) NO > N₂O : Bond length of N–O bond
 - (3) $N_2O_3 > N_2O_4$: O-N-O bond angle
- (2) $N_2O_3 > N_2O_5$: Acidic character
- (4) $NO2 = N_2O_5$: O-N-O bond angle
- 5 Zinc reacts with dilute HNO_3 to give
 - 1) N_2O

2) NO

3) *NO*₂

4) N_2

- 6 The following element does not have allotropes
 - 1) N

2) P

3) As

- 4) Sb
- Which of the following on decomposition does not give nitrogen gas
 - 1) NH₄NO₂
- 2) (NH₄)₂Cr₂O₇
- 3) Ba(N₃)₂

4) NH₄NO₃

- 8 Boiling point order of VA group hydrides
 - 1) $NH_3 < PH_3 < AsH_3 < SbH_3$

2) $NH_3 > PH_3 > AsH_3 > SbH_3$

3) $PH_3 > SbH_3 > NH_3 > AsH_3$

4) $PH_3 < AsH_3 < NH_3 < SbH_3$

	Solid PCl ₅ exists as	S		
	1) <i>PCl</i> ₅	2) <i>PCl</i> ⁺	3) <i>PCl</i> ₆	4) PCl_4^+ and PCl_6^-
		•		
10	The reaction of Zino	c with dilute and conce	entrated nitric acid respe	ectively produces
	1) <i>NO</i> ₂ & NO		3) NO ₂ & N ₂ O	
11	P_4O_{10} has short and	long P – O bonds. The	number of short P – O	bond in this compound is –
	1) 1		3) 3	
		,	,	,
12	The maximum num	ber of P – H bonds are	contained in which of	the following molecules?
	1) H_3PO_2			
13	Which of the follow	ving does not contain F	P-O-P bond ?	
		$2. (HPO_3)_3$		4. $H_4P_2O_7$
14	Acidic salt among	the following is		
	_	2) Na ₂ H ₂ P ₂ O ₇	3) Na ₃ PO ₄	4) Na ₂ HPO ₃
15	Nitrogen can not be	e obtained by heating		
	1) Ba $(N_3)_2$	2) $Pb(NO_3)_2$	3) $\left(NH_4\right)_2 Cr_2$	O_7 4) NH_4NO_2
16	At 0°C, NO ₂ is			
	1) Paramagnetic,	_	,	netic, coloured gas
	 Paramagnetic, c Diamagnetic, c 	_	,	netic, coloured gas metic, coloured solid
	3) Diamagnetic, c	oloured solid	4) Paramag	netic, coloured solid
17	3) Diamagnetic, c	oloured solid	4) Paramag	netic, coloured solid P2O5 into ortho phosphonic acid is
17	3) Diamagnetic, c	oloured solid	4) Paramag	netic, coloured solid
	3) Diamagnetic, c The number of molec 1) 2	oloured solid ules of water needed to o 2) 3	4) Paramag	netic, coloured solid 205 into ortho phosphonic acid is 4) 5
17	3) Diamagnetic, c The number of molec 1) 2 Two oxides of Nitrog compound of Nitroge	oloured solid ules of water needed to of 2) 3 en NO and NO2 are allown(X) when compound (X)	4) Paramag convert one molecule of F 3) 4	netic, coloured solid 205 into ortho phosphonic acid is 4) 5
	3) Diamagnetic, c The number of molec 1) 2 Two oxides of Nitroge compound of Nitroge (Y). The shape of ani-	oloured solid ules of water needed to of 2) 3 en NO and NO2 are allown(X) when compound (X) on of (Y) molecule is	4) Paramag convert one molecule of F 3) 4 ved to react together at 24 (c) reacts with water to yie	netic, coloured solid 205 into ortho phosphonic acid is 4) 5 43K and form a coloured ld another compound of Nitrogen
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18	The number of molection of Nitroge compound of Nitroge (Y). The shape of anital triangular planar	oloured solid ules of water needed to of 2) 3 en NO and NO2 are allow n(X) when compound (X) on of (Y) molecule is 2) bent or angular	4) Paramag convert one molecule of F 3) 4 ved to react together at 24 (1) reacts with water to yie 3) tetrahedron	metic, coloured solid 205 into ortho phosphonic acid is 4) 5 43K and form a coloured 1d another compound of Nitrogen 4) square planar
	The number of molect 1) 2 Two oxides of Nitrog compound of Nitroge (Y). The shape of animal triangular planar	oloured solid ules of water needed to of 2) 3 en NO and NO2 are allow n(X) when compound (X) on of (Y) molecule is 2) bent or angular der of boiling point of	4) Paramag convert one molecule of F 3) 4 ved to react together at 24 (2) reacts with water to yie 3) tetrahedron Chydrides of group 15	metic, coloured solid 205 into ortho phosphonic acid is 4) 5 43K and form a coloured 1d another compound of Nitrogen 4) square planar elements is -
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going from N to Bi. This shows that gradually- (1) The basic strength of the hydrides increases (2) Almost pure p-orbitals are used for M-H bonding (3) The bond energies of M-H bonds increase (4) The bond pairs of electrons become nearer to the central atom 21 P ₄ O ₁₀ has short and long P-O bonds. The number of short P-O bonds in this compound is - (1) 1 (2) 2 (3) 3 (4) 4 22 Which one of the following is not an acid salt - (1) NaH ₂ PO ₂ (2) NaH ₂ PO ₃ (3) NaH ₂ PO ₄ (4) Na ₂ HPO ₄	
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which one of the foliowing is not an acta sair	
(1) NaHaPOa (2) NaHaPOa (3) NaHaPOa (4) NaaHPO	
(1) 1 (11) 2 (2) 1 (11) 2 (3)	-
When excess of water is added to BiCl ₃ solution	
(1) Ionization of BiCl ₃ is increased	
(2) A white ppt. of Bi(OH) ₃ is obtained	
(3) BiCl ₃ is hydrolysed to give white ppt. of BiOCl	
(4) BiCl ₃ is precipitated	
24 Skin becomes yellow in conc. HNO ₃ because -	
(1) The proteins are converted into xanthoproteins	
(2) HNO ₃ acts as a dehydrating agent	
(3) NItrocellulose is formed	
(4) HNO ₃ acts as an oxidising agent	
25 Choose the incorrect statement -	
(1) Solid PCl ₅ exists as tetrahedral [PCl ₄] ⁺ and octahadral [PCl ₆] ⁻ ions	
(2) Solid PBr ₅ exists as [PBr ₄] ⁺ Br ⁻	
(3) Solid N ₂ O ₅ exists as NO ₂ ⁺ NO ₃ ⁻	
(4) Oxides of phosphorus P ₂ O ₃ and P ₂ O ₅ exist as monomers	
26 Ammonia reacts with excess of chlorine to form -	
(1) N_2 and NH_4Cl (2) NCl_3 and HCl (3) NH_4Cl and NCl_3 (4) N_2 and HCl	

27	PCl ₃ reacts with wat	er to form -		
	(1) PH ₃	(2) H ₃ PO ₃ and HCl	(3) POCl ₃	$(4) H_3 PO_4$
28	The correct order of d	lecreasing acid strength of	of oxy acids of group 15	elements is -
	(1) HNO3 > H3SbO4	> H ₃ AsO ₄ $>$ H ₃ PO ₄	(2) $H_3PO_4 > H_3AsO$	$_4 > \text{H}_3\text{SbO}_4 > \text{HNO}_3$
	(3) $HNO_3 > H_3PO_4$	> H ₃ AsO ₄ > H ₃ SbO ₄	(4) HNO3 > H3AsO4	$_{4}$ > $_{1}$ PO ₄ > $_{3}$ SbO ₄
29	On heating a mixture	of NH ₄ Cl and KNO ₂ , w	ve get -	
		(2) KHN ₄ (NO ₃) ₂		(4) NO
	(=) = =================================	(=) 4(- : - 3)/2	(-)2	(1) 21 2
30	Which of the follow	ing oxides of nitrogen	vic neutrol	
				(4) N-O
	(1) N_2O_5	(2) N_2O_3	(3) N_2O_4	$(4) N_2O$
31	_	phosphorus do not forms I	-	
		nt between phosphorus ato		
	(3) $p^n - p^n$ bonding is s	trong (4)) Multiple bond is formed	d easily
22	G - 1' 1	h 1 - 4 - 1 - 1		
32	-	hosphate is known as -		(4) 57' (1)
	(1) Calgon	(2) Permutit	(3) Natalite	(4) Nitrolim
33	Least acidic and mos	t acidic oxides of nitroge	en ore _	
33		(2) N ₂ O, N ₂ O ₄		(4) N2O. N2O2
	(=)=-2=,=-2=3	(-) - 1 2 - 3 - 1 2 - 4	(=)=12=,=1=	(1) = 12 = 3
34	Aqua regia is mixture	e of –		
		(2) 3HNO ₃ + HCl	(3) H ₃ PO ₄ + HCl	(4) PH3 + HClO
	2			
35	The number of mole	cules of water needed to	o convert one molecul	e of P ₂ O ₅ into
	orthophosphoric acid			2 3
	(1) 2	(2) 6	(3) 4	(4) 5
36	The wrong statemen	t about ammonia is -		
		with oxygen at 700°C i	in the presence of pla	tinum
	(2) NH, gives black	precipitate with calom	el	
	5	d by P_2O_5 , H_2SO_4 and		
	(4) NH ₃ gives white		2	
	(+) 11113 gives winte	Tumes with ITCI		

37	Which of the fo	ollowing trihalides is	not hydrolysed -	
	(1) PF ₃	(2) PCl ₃	(3) AsCl ₃	(4) SbCl ₃
	(-) - 3	(-)3	() 3	(7)
38	In the compound	s of the type POX ₂ . P	atoms show multiple bo	nding of the type -
				(4) None of these
	(1) P P	(2) a a	(3) P G	(1) Itohe of these
39	How many P-O b	onds and how many lon	e pairs respectively are pr	esent in P ₄ O ₆ molecule -
	(1) 12, 4	(2) 8, 8	(3) 12, 16	(4) 12, 12
40	Ammonia read	cts with Nessler's re	agent to give -	
	(1) Deep blue	precipitate	(2) Whi	te precipitate
	(3) Green pred	cipitate	(4) Bro	wn precipitate
	•	•		
41	Liquid ammonia	is used in refrigerators	because -	
	(1) It has high di	-		solubility in water
	(3) Of its basicity	y	(4) It has high l	neat of evaporation
42	Red phosphorus	is less reactive than y	vellow phosphorus beca	use -
	(1) Its colour is	red	(2) It is highly	polymerised
	(3) It is tetratom	nic	(4) It is hard	
43	Mixture used in	Holme's signal is -		
	(1) CaC_2 and (CaCl ₂	(2) CaCl ₂	and Ca ₃ P ₂
	(3) CaC ₂ and (Ca ₃ N ₂	(4) CaC ₂	and Ca ₃ P ₂
	_	J _	-	
44	Which out of the	e following gases is ob	tained when ammoniun	n dichromate is heated -
	(1) Oxygen	(2) Ammonia	(3) Nitrogen	(4) Nitrous oxide
45	Among the trih	alides of nitrogen w	hich one is most basic	-
	(1) NF ₃	(2) NCl ₃	(3) NI ₃	(4) NBr ₃
	(-) 3	(-)5	(-/5	() 5
46	The correct sea	nence of decrease in	the bond angle of the	following hydrides is -:
	-	> AsH ₃ > SbH ₃		$AsH_3 > PH_3 > SbH_3$
		2 2		5 5 5
	(3) 30113/ ASII	$I_3 > PH_3 > NH_3$	(4) FII3/1	$NH_3 > AsH_3 > SbH_3$

47	The low reactivity	of nitrogen is due to	-	
	(1) Small atomic ra	adius	(2) High electron	negativity
	(3) Stable configur	ration	(4) High bond of	lissociation energy
48	Which one of the	following does not u	ndergo hydrolysis -	
	(1) AsCl ₃	(2) SbCl ₃	(3) PCl ₃	(4) NF ₃
			. , , ,	, , ,
49	Which one of the fo	llowing properties of v	vhite phosphorous are sha	ared by red phosphorous
	(1) It dissolves in C		(2) It burns when he	,
		OH to give PH ₃		
	(5) It leaves with the	ion to give mig	(1) It phosphoreseen	ces in un
50	Which one of the	following pentaflu	orides cannot be form	ed -
	(1) PF ₅	(2) AsF ₅	(3) SbF ₅	4 - 5
	(1) 115	(2) Asi 5	(3) 3015	$(4) NF_5$
51	m1 11 1 11	0370		
21	The dimerisation of	of NO_2 as the tempera	ture is lowered is accon	npanied by -
	(1) An increase in	-	(2) A darkening	
	(3) A decrease in p	paramagnetism	(4) The formatio	n of a colloid
52			parate nitric oxide from	
	(1) Sodium nitropi		(2) Ferrous sul	
	(3) Nessler's reage	nt	(4) Tollen's rea	gent
53	-	btained by the reaction		. 1 . 24 27 077
	(1) White P is heat		(2) Red P is heat	
	(3) Ca ₃ P ₂ reacts w	ith water	$(4) P_4 O_6$ is boile	ed with water
54	In P ₄ O ₆ the numb	er of oxygen atoms bo	onded to each phosphort	is atom is -
	(1) 1.5	(2) 2	(3) 3	(4) 4
55		orm stable pentahalide		
	(1) Its higher electron		(2) Its smaller size	
	(3) Inert pair effect		(4) Non availability	of d-orbitals

56		ring is basic in nature -		(4) II Ct-O
	(1) H ₃ PO ₃	$(2) H_3 BiO_3$	(3) H ₃ AsO ₃	(4) H ₃ SbO ₃

57	Acidic nitrogen	hydride is -		
	_	$(2) N_3 H$	(3) NH ₂ OH	(4) NH ₃
			_	
58	PCl ₅ exists but	NCl ₅ does not because -		
	(1) Nitrogen has	s no vacant d-orbitals	(2) NCl ₅ is t	ınstable
	(3) Nitrogen ato	om is much smaller	(4) Nitrogen	is highly inert.
59	Flower of phosp	phorous are -		
	(1) Arsenic	(2) Phosphorous	(3) P_4O_6	(4) P_4O_{10}
60	Aqueous solution	of ammonia consists of -		
	$(1) H^{+}$	(2) OH ⁻	$(3) NH_4^+$	(4) NH ₄ ⁺ and OH ⁻
61	Which of the fol	lowing phosphorus oxyac	ids can act as a redu	cing agent ?
	(1) H ₃ PO ₃	$(2) H_3 PO_4$	(3) HPO ₃	$(4) H_4 P_2 O_7$
62		phorous is heated with caustic	-	
	$(1) PH_3 + NaH_2P$	PO_3 (2) $PH_3 + NaH_2PO_2$	$(3) PH_3 + Na_2HPO_3$	$(4) PH_3 + NaH_2PO_4$
63	The D. D. D.	11111		
03		ond angle in white phospl		(4) 1000 20!
	(1) 120°	(2) 90°	(3) 60°	(4) 109° 28'
64	Dhocnhina produ	ices smoky rings when it c	omes in contact with	n oir becouse
	(1) It reacts with		(2) It reacts with	
	(3) It burns in air	-		mpurities of P ₂ H ₄
				1 2 T
65	Liquor ammonia	ı is -		
	(1) Ammonium		(2) Liquified am	monia gas
	(3) Concentrated	l solution of NH ₃ in water	(4) A solution of	f NH ₃ in alcohol
66	Pearl white is -			
	(1) AsOCl	(2) SbOCl	(3) BiOCl	$(4) (NH_4)_2 CO_3$

67	PCl ₅ is kept in	n well stoppered bottle	s because -	
	(1) It is highly	volatile	(2) It reac	ts with oxygen
	(3) It reacts re	adily with moisture	(4) It is ex	xplosive
68		ollowing oxides will be	least acidic -	
	(1) P_4O_6	(2) P_4O_{10}	(3) As ₄ O ₆	(4) P_2O_5
69	Which of the fe	ollowing oxy acids of Pl	hosphorus is a reducin	g agent and monobasic -
	(1) H ₃ PO ₂	(2) H ₃ PO ₃	(3) H ₃ PO ₄	$(4) H_4 P_2 O_7$
70	Which of the fo	ollowing is used as ana	esthetic -	
	(1) NH ₃	(2) NO	(3) N_2O	(4) NO ₂
	5		-	-
71	Which forms s	trong $p\pi - p\pi$ bonds?		
				(4) D;
	(1) N	(2) As	(3) P	(4) Bi
72	D1 1:1:	1 4 1 4 1 4		•
14	Phosphide ion	has the electronic struc	ture similar to that of	:
	(1) N^{3-}	(2) Cl ⁻	(3) F^{-}	(4) Na ⁺
73	The correct order	r for decreasing acidic stre	ngth of oxoacids of gp. 15	is:
	(1) $HNO_3 > H_3S$	$SbO_4 > H_3 AsO_4 > H_3 PO_4$	(2) $H_3PO_4 > A_3SO_4$	$>H_{3}SbO_{4}>HNO_{3}$
	$(3) HNO_3 > H_3I$	$PO_4 > H_3 AsO_4 > H_3 SbO_4$	$(4) HNO_3 > H_3 As O$	$O_4 > H_3 P O_4 > H_3 Sb O_4$
74	In the atmosphere	N_2 is present as element w	ith O_2 because :	
	(1) N_2 is more re	eactive	(2) N_2 is inert	
	(3) N_2 does not r		(4) N, is actively parts	icinating in the reaction
	(3) 112 4003 1011	eact with o_2	(1) 112 is detively part	icipating in the reaction
75	Which oxyacid o	f nitrogen is obtained when	n NO ₂ is absorbed in cor	nc. H_2SO_4 ?
	(1) HNO ₂	(2) HNO ₄	(3) <i>HNO</i> ₃	(4) none of these
	2	•		
76	HNO ₃ oxidizes :			
			(2) 50	(4) All of those
	(1) H_2O_2	$(2) H_2S$	(3) SO ₂	(4) All of these

7	A compound which leaves behind no residue on heating is:
	(1) $Cu(NO_3)_2$ (2) KNO_3 (3) NH_4NO_3 (4) none of these
	KEY
1	(2)
2	(3)
3	(2)
4	(4)
5	(1)
6	: (1) Except nitrogen all elements exhibit allotropy (NCERT page no : 167)
7	: (4) $NH_3NO_3 \to N_2O + 2H_2O$
8	(4)
9	: (4) Solid PCl_5 exists as $-PCl_4^+$ and $-PCl_6^-$
10	: (4) $Zn + dilHNO_3 \rightarrow Zn(NO_3)_2 + H_2O + N_2O$
	$Zn + ConHNO_3 \rightarrow Zn(NO_3)_2 + H_2O + N_2O$

(4)

11

12

	: (1)
	The structure of the given oxycids of phosphorus are as
13	
	(3)
14	
15	(2)
15	(2)
16	(2)
	(3)
17	
	(3)
18	
	(2)
19	
20	ANS-1
20	ANS-2
21	
	ANS-4
22	ANS-1
	ANO-1
23	
	ANS-3
24	ANS-1
25	
	ANS-4
26	ANC 2
27	ANS-2
	ANS-2
28	
29	ANS-3
47	ANS-3

30	ANS-4
31	ANO-4
	ANS-2
32	
00	ANS-1
33	ANS-1
34	
	ANS-1
35	ANS-2
36	ANS-2
	ANS-3
37	
38	ANS-1
38	ANS-3
39	
	ANS-3
40	ANS-4
41	
	ANS-4
42	ANGO
43	ANS-2
	ANS-4
44	ANC 2
	ANS-3
45	
	ANS-3
46	
45	ANS-1
47	ANS-4
48	
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49	
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	ANS-4
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	ANS-3
52	
	ANS-2
53	
33	ANS-2
-	ANS-2
54	
	ANS-3
55	
	ANS-3
56	
	ANS-2
57	
	ANS-2
58	
	ANS-1
59	
	ANS-4
60	
	ANS-4
61	AND-T
01	ANO 1
60	ANS-1
62	ANGO
	ANS-2
63	
	ANS-3
64	
	ANS-4
65	
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