Model Question paper p-Block elements 1

11th Standard

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	Chemistry	Reg.No.:		T	
	I. Answer all the questions.		 		
	II. Use blue pen only.				
Tin	ne : 00:45:00 Hrs		Tota	l Mark	is:35
	Part - A			5 x	(1=5
1)	The elements of group 13 to 18 of the periodic table are known as				
	(a) s - block elements (b) p - block elements (c) d - block elements (d) f - block elements				
2)	The general electronic configuration of group 18 elements is				
	(a) ns^2 (b) ns^2np^1 (c) ns^2np^{2-5} (d) ns^2np^6				
3)	The basic oxide among the following				
	(a) Bi_2O_3 (b) SnO_2 (c) HNO_3 (d) SO_3				
4)	The most stable hydride of the following				
	(a) NH_3 (b) PH_3 (c) AsH_3 (d) BiH_3				
5)	The process used for the manufacture of ammonia is				
	(a) Contact process (b) Ostwald process (c) Haber's process (d) Linde's process				
	Part - B			3 x	2 = 6
6)	Mention the reasons for the stabilisation of lower oxidation state of p-block element.				
7)	Show the electron accepting property of boron trifluoride by giving an example.				
8)	Given an example of monovalent and trivalent element in group III.				
	Part - C			3 x	3 = 9
9)	Why NH_3 has high boiling point than PH_3 ?				
10)	NH_3 is soluble in water whereas other hydrides of group 15 elements are insoluble in water. Why?				
11)	Which is considered to be "earth's protective umbrella"?				
	Given an example of monovalent and trivalent element in group III.			3 x 5	5 = 15
12)	Give an account of nature of hydrides of 15th group element.				
13)	What happens when boron reacts with				
	(a) conc. H_2SO_4				
	(b) conc. HNO_3				
	(c) SiO_2				
14)	How borax bead test is helpful in identifying basic radicals in qualitative analysis?				
