#### **PRACTICE TEST**

#### Level 2

# CLASS: XII

## **Unit 7: The p-Block Elements**

### Full marks: 20

## Time: 40 Min

Eiwari

Q.No		Questions	Μ
1	In the case of nitrogen, all oxidation states from +1 to +4 tend to		
	disproportionate in acid solution. Write the disproportionation reac		1
	HNO <sub>2.</sub>		
2	The max	The maximum covalency of nitrogen is	
3	Phospho	brous can form $PF_{6}^{-}$ . True/False?	1
4	Name th	lame the strongest reducing agent among all the hydrides of group 15.	
5	Write th	Write the sequence of the reactions involved in Ring Test of nitrogen.	
6	Answer the following-		
	i.	Why does PCl <sub>5</sub> in solid state exists as ionic compound in solid state?	
	ii.	What happens when PCl <sub>5</sub> is heated?	2
7	i.	Elements of Group 16 generally show lower value of first ionization	
		enthalpy compared to the corresponding periods of group 15. Why?	2
	ii.	Why does NH <sub>3</sub> form hydrogen bond but PH <sub>3</sub> does not?	
		OR	
	i.	Why are the elements of Group 18 known as noble gases?	
	ii.	Why is helium used in diving apparatus?	
8	i.	$H_2S$ is less acidic than $H_2Te$ . Explain why?	2
	ii.	H <sub>2</sub> O a liquid and H <sub>2</sub> S a gas. Explain why?	
		OR	
	i.	Explain why inspite of nearly the same electronegativity, nitrogen	
		forms hydrogen bonding while chlorine does not.	
	ii.	Why are halogens coloured?	
9	i.	Why does $O_3$ act as a powerful oxidising agent?	2
	ii.	Which form of sulphur shows paramagnetic behaviour? Why?	
10	Explain:		
	i.	Why Nitrogen exists as diatomic molecule and phosphorus as P <sub>4</sub> ?	
	ii.	Why does nitrogen show catenation properties less than	3
		phosphorus?	
	iii.	Why is dioxygen a gas but sulphur a solid?	
11	Write the reaction for what happens when-		
	i.	Orthophophorous acid (or phosphorous acid) is heated.	3
	ii.	$AgNO_3 + H_2O + H_3PO_2 \rightarrow$	
	iii.	H <sub>3</sub> PO <sub>3</sub> is heated?	