

**p-Block Elements**

**Std. XII**  
**CHEMISTRY**

**Time: 30 mts**  
**Max.Marks: 25**

- p-block elements occupy groups
 

a 1 - 2	b 3 - 12
c 13 - 18	d 1 - 18
- The metalloid among the following is
 

a P	b Pb
c Ge	d Sn
- Which one of the following is extremely toxic?
 

a Aluminium	b Gallium
c Thallium	d Indium
- Which element does not exhibit +1 oxidation state?
 

a Ga	b B
c In	d Tl
- An aqueous solution of potash alum is
 

a neutral	b acidic
c amphoteric	d basic
- Potash alum is manufactured from
 

a alunite	b aluminon
c ferric alum	d chrome alum
- Which does not exhibit allotropy?
 

a C	b Si
c Pb	d Sn
- Electronic configuration of 14<sup>th</sup> group element is
 

a $ns^2 np^2$	b $ns^1 np^1$
c $ns^1 np^2$	d $ns^2 np^1$
- Oxygen group is otherwise known as \_\_\_\_\_
 

a Halogen	b Noble gases
c Chalcogens	d Alkali metals
- Lead is mainly extracted from
 

a Pb O	b Pb CO <sub>3</sub>
c Pb SO <sub>4</sub>	d Pb S
- \_\_\_\_\_ makes up 78% of earth's atmosphere by volume
 

a N <sub>2</sub>	b H <sub>2</sub>
c P	d Cl <sub>2</sub>
- The hybridisation of phosphorus in PCl<sub>3</sub> is
 

a sp	b sp <sup>2</sup>
c sp <sup>3</sup>	d dsp <sup>2</sup>
- Which among the following has garlic taste?
 

a P <sub>2</sub> O <sub>3</sub>	b H <sub>3</sub> PO <sub>4</sub>
c PCl <sub>3</sub>	d H <sub>3</sub> PO <sub>3</sub>

14.  $\text{H}_3\text{PO}_3$  is  
 a dibasic  
 c tribasic  
 b monobasic  
 d tetrabasic
15. Orthophosphoric acid is  
 a dibasic  
 c tribasic  
 b monobasic  
 d tetrabasic
16. Souring agent in the preparation of soft drink is  
 a  $\text{H}_3\text{PO}_3$   
 c  $\text{H}_3\text{PO}_4$   
 b  $\text{H}_4\text{P}_2\text{O}_7$   
 d  $\text{HPO}_3$
17. Which is a powerful dehydrating agent?  
 a  $\text{P}_2\text{O}_3$   
 c  $\text{PCl}_5$   
 b  $\text{P}_2\text{O}_5$   
 d  $\text{P}_2\text{O}_3$
18. The compound with rotten fish odour.  
 a  $\text{PCl}_3$   
 c  $\text{PCl}_5$   
 b  $\text{PH}_3$   
 d  $\text{P}_2\text{O}_3$
19. Chemicals involved in Holme's signals are  
 a  $\text{CaC}_2$  and  $\text{Ca}_3\text{P}_2$   
 c  $\text{Ca}_2\text{C}$  and  $\text{Ca}_2\text{P}_3$   
 b  $\text{CaC}_2$  and  $\text{Ca}_2\text{P}_3$   
 d  $\text{Ca}_2\text{C}$  and  $\text{Ca}_3\text{P}_2$
20. The outer electronic configuration of 17<sup>th</sup> group is  
 a  $ns^2 np^2$   
 c  $ns^2 np^4$   
 b  $ns^2 np^3$   
 d  $ns^2 np^5$
21. Hydrides of halogens are called as  
 a Hydro carbons  
 c Halides  
 b Hydracids  
 d Oxy acids
22.  $\text{XeF}_4$  has \_\_\_\_\_ structure.  
 a tetrahedral  
 c octahedral  
 b square planar  
 d pentagonal
23. Deep sea divers use \_\_\_\_\_ mixture.  
 a  $\text{N}_2 - \text{O}_2$   
 c  $\text{Ne} - \text{O}_2$   
 b  $\text{He} - \text{O}_2$   
 d  $\text{Ar} - \text{O}_2$
24. What is the physical state and colour of  $\text{Br}_2$ ?  
 a yellow gas  
 c reddish brown liquid  
 b violet solid  
 d yellow solid
25. Which is used for preventing dental cavities?  
 a  $\text{CaF}_2$   
 c  $\text{UF}_6$   
 b  $\text{SF}_6$   
 d  $\text{NaF}$