

## DPP

DAILY PRACTICE PROBLEMS

CLASS : XI<sup>th</sup>  
DATE :

SUBJECT : CHEMISTRY  
DPP No. : 3

### Topic :- THE P-BLOCK ELEMENTS-1

- Inorganic benzene is
  - $B_3H_3N_3$
  - $BH_3NH_3$
  - $B_3H_6N_3$
  - $H_3B_3N_6$
- Boric acid is prepared from borax by the action of:
  - Hydrochloric acid
  - Sodium hydroxide
  - Carbon dioxide
  - Sodium carbonate
- Which of the following does not contain silicon?
  - Kaoline
  - Agate
  - Ruby
  - Quartz
- Which one of the following statements about the zeolites is false?
  - They are used as cation exchangers.
  - They have open structure which enables them to take up small molecules.
  - Zeolites are aluminosilicates having three dimensional network.
  - Some of the  $SiO_4^{4-}$  units are replaced by  $AlO_4^{5-}$  and  $AlO_6^{9-}$  ions in zeolites.
- Least stable hydride is :
  - Methane
  - Plumbane
  - Silane
  - Stibine
- Which member of group 13 is liquid at  $30^\circ C$ ?
  - B
  - Al
  - Ga
  - Tl
- Which fuel has the highest calorific value (kJ/kg)?
  - Charcoal
  - Kerosene
  - Wood
  - Cow dung
- Lead sulphate is soluble in :
  - conc.  $HNO_3$
  - $KMnO_4/H^+$
  - $K_2Cr_2O_7/H^+$
  - None of these
- Dry ice is
  - Solid  $H_2O$
  - Solid  $CO_2$
  - Solid  $N_2O_4$
  - Solid  $NH_3$
- Each B – H – B bridge in  $B_2H_6$  is formed by the sharing of
  - 2 electrons
  - 4 electrons
  - 1 electrons
  - 3 electrons
- Which one of the following ores is best concentrated by froth-floatation method?
  - Magnetite
  - Cassiterite
  - Galena
  - Malachite
- Which metal is powdered, suspended in oil and used as paint?
  - Fe
  - Sn
  - Ag
  - Al
- Aqueous solution of potash alum is:
  - Alkaline
  - Acidic
  - Neutral
  - Soppy

14. In aluminothermic process, Al is used as  
a) Reducing agent      b) Oxidising agent      c) Catalyst      d) Electrolyte
15. Coal gas:  
a) Burns with a smoky flame  
b) Burns with non-smoky flame  
c) Is not used for lighting purpose  
d) Is not a good fuel
16. Which halide is least stable and has doubtful existence?  
a)  $\text{Cl}_4$       b)  $\text{GeI}_4$       c)  $\text{SnI}_4$       d)  $\text{PbI}_4$
17. Carbon suboxide  $\text{C}_3\text{O}_2$  has  
a) Linear structure      b) Bent structure  
c) Trigonal planar structure      d) Distorted tetrahedral structure
18. On strong heating lead nitrate gives:  
a)  $\text{PbO}, \text{NO}, \text{O}_2$       b)  $\text{PbO}, \text{NO}, \text{NO}_2$       c)  $\text{PbO}_2, \text{PbO}, \text{NO}_2$       d)  $\text{PbO}, \text{NO}_2, \text{O}_2$
19.  $\text{AlI}_3$ , when react with  $\text{CCl}_4$ , gives  
a)  $\text{AlCl}_3$       b)  $\text{Cl}_4$       c)  $\text{Al}_4\text{C}_3$       d)  $\text{Al}_2\text{O}_3$
20. All alums contain:  
a) One monovalent and one trivalent metal  
b) Both monovalent metal  
c) One divalent and one monovalent metal  
d) Both divalent metal