

DPP

DAILY PRACTICE PROBLEMS

CLASS : XIth

DATE :

SUBJECT : CHEMISTRY

DPP No. : 1

Topic :- THE P-BLOCK ELEMENTS-1

- Carbon monoxide on heating with sulphur gives:
 - COS
 - SO₂
 - SO₃
 - None of these
- Crystalline varieties of carbon is :
 - Graphite
 - Coke
 - Peat
 - Gas carbon
- Formula of felspar is
 - K₂O.Al₂O₃.6SiO₂
 - K₂O₃.Al₂O₃.6Si₂O₂.2H₂O
 - Al₂O₃.2SiO₂.2H₂O
 - 3MgO.4SiO₂.H₂O
- The ratio of Fe₂O₃ and Al, in thermite is
 - 1:3
 - 1:2
 - 3:1
 - None of these
- The relative Lewis acid character of boron trihalides is in the order
 - BI₃ > BBr₃ > BF₃ > BCl₃
 - BI₃ > BBr₃ > BCl₃ > BF₃
 - BF₃ > BCl₃ > BBr₃ > BI₃
 - BCl₃ > BF₃ > BI₃ > BBr₃
- Alum is added to muddy water because
 - It acts as disinfectant
 - It results in coagulation of clay and sand
 - Clay is soluble in alum, hence removes it
 - It makes water alkaline which is good for health
- The reducing agent in thermite process is
 - MnO₂
 - BaO₂
 - Mg
 - Al
- There are two H-bridge bonds in diborane molecule because there are:
 - Only 12 electrons
 - 14 electrons
 - 2 electrons less than required for bonding
 - Two electrons more than required for bonding
- Name of structure of silicates in which three oxygen atoms of [SiO₄]⁴⁻ are shared is
 - Pyrosilicate
 - Sheet silicate
 - Linear chain silicate
 - Three dimensional silicate
- Pb reacts with dilute HNO₃ produces
 - NO
 - NH₄NO₃
 - N₂O₅
 - NO₂
- Aluminium appears like gold when it is mixed with:
 - 90% Cu
 - 50% Ni
 - 90% Sn
 - 50% Co

12. Purification of aluminium done by electrolytic refining is known as
a) Hoope's process b) Serpeck's process c) Hall's process d) Baeyer's process
13. Which of the following is used in making printer's ink, shoe polish, black varnish and paint?
a) Lamp black b) Bone black c) Carbon black d) None of these
14. The hottest part of the Bunsen burner flame is:
a) Top of the outer zone
b) A little below the tip of the flame
c) Above the inner zone
d) Blue zone
15. In the alumino-thermic process, aluminium acts as:
a) An oxidizing agent b) A flux c) A reduction agent d) A solder
16. Diborane reacts with water to form:
a) HBO_2 b) H_3BO_3 c) $\text{H}_3\text{BO}_3 + \text{H}_2$ d) H_2
17. The chief impurity present in red bauxite is
a) SiO_2 b) Fe_2O_3 c) K_2SO_4 d) NaF
18. Be and Al exhibits many properties which are similar but the two elements differ is:
a) Exhibiting amphoteric nature in their oxides
b) Forming polymeric hydrides
c) Forming covalent halides
d) Exhibiting maximum covalency in compounds
19. Borax bead test is responded by:
a) Divalent metals
b) Heavy metals
c) Light metals
d) Metal which forms coloured metaborates
20. A fibrous mineral which can withstand red hot flames without any damage is
a) Talc b) Glass wool c) Soap stone d) Asbestos