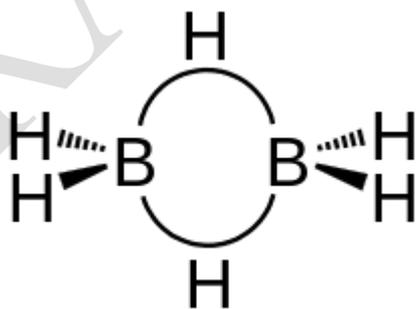


CLASS XI SAMPLE PAPER CHEMISTRY

(S- BLOCK, P-BLOCK , HYDROCARBONS)

- Q.1 Which of the following has planar geometry? 01
 (a) BF_3 (b) NH_3
 (c) PCl_3 (d) IF_3
- Q.2 Percentage of lead in lead pencils is 01
 (a) 25 (b) 20
 (c) 0 (d) 60
- Q.3 Tl^{+1} is more stable than Tl^{3+} due to 01
 (a) inert pair effect (b) smaller size
 (c) bigger size (d) higher hydration energy
- Q.4 The element which exists in liquid state for a wide range of temperature and can be used for measuring high temperature is 01
 (a) B (b) Al
 (c) Ga (d) In
- Q5 Suggest one reason to explain poisonous nature of CO 01
- Q 6 Which of the following statements are correct .Answer on the basis of figure 03



- (a) The two bridged hydrogen atoms and the two boron atoms lie in same plane .
- (b) Out of six B-H bonds can be described in terms of 3 centre 2- electron bonds.

- (c) Out of six B-H bonds four B-H bonds can be described in terms of 3 centre 2- electron bond .
- (d) The four terminal B-H bonds are two centre two electron bonds.
- Q.7 What is Lindlar's catalyst? Give its use. 02
- Q.8 How will you detect the presence of unsaturation in an organic compound? Give example. 02
- Q.9 What is wurtz reaction? Why dry ether is used as a solvent in this reaction. 02
- Q.10 Is boric acid is a protic acid? Explain. 02
- Q.11 What is inert pair effect? What is its effect on the stability of oxidation states of group 13 elements? 02
- Q.12 What is inorganic benzene? How is it prepared? 02
- Q.13 Arrange benzene, ethyne, n-hexane in decreasing order of acidic behavior. Also, give reason for this. 02
- Q.14 Out of CO_2 , SiO_2 , GeO_2 , SnO_2 , PbO_2 Which is best oxidizing agent and why? 02
- Q.15 What type of isomerism is shown by alkanes. Explain it with help of ethane. 03
- Q.16 Give the reaction of propene with HBr. What is the effect on reaction in presence of peroxide? 03
- Q.17 (a) Why $[\text{SiF}_6]^{2-}$ is known whereas $[\text{SiCl}_6]^{2-}$ not. 02
 (b) Which is more stable PbCl_2 or PbCl_4 ? Why 01
 (c) Explain why tetra chloride of carbon is not hydrolysed by water but tetrachloride of silicon can be hydrolysed by water? 02
- Q.18 (a) Explain Kolbe electrolysis for preparation of alkanes. 02
 (b) How will you prepare alkene from alkyl halides. Give other name given to this reaction. Also explain Saytzeff rule. 03

CHEMISTRY BY PARAMJEET KAUR