Worksheet: Chemical Bonding and Molecular Structure

Uttar Pradesh State Board · Class 11 · Chemistry · 5 questions · 14 marks

Name: _____ Date: _____ Score: _____ / 14

Q1. Determine the hybridisation and shape of SF4. *[3 marks]*

Q2. Why is H2O bent but CO2 linear? *[3 marks]*

Q3. Why does water have a higher boiling point than H2S? *[2 marks]*

Q4. Calculate the bond order of O2 2- (peroxide ion) and predict its magnetic behaviour. *[3 marks]*

Q5. Explain why O2 is paramagnetic using molecular orbital theory. *[3 marks]*