

ASSIGNMENT NO.5
Group 18 Elements
Chapter: The p block Elements

- Q.1. Why are group 18 elements also known as inert or noble gases?
- Q.2. Why are the electron gain enthalpies of noble gases largely positive?
- Q.3. IE of noble gases are the highest in their respective periods. Why?
- Q.4. Why is it difficult to liquefy the noble gases? Explain how the ease of liquefaction of such gases will vary on moving down the group.
- Q.5. Out of He and Xe, which one can easily form compound and why?
- Q.6. Name the compound which led to the discovery of compounds of noble gases.
- Q.7. Give the formula and describe the structure of a noble gas species which is isostructural with IBr_2^- .
- Q.8. Write the uses of helium and neon.
- Q.9. What inspired N. Bartlett for carrying out reactions between Xe and PtF_6 ?
- Q.10. How can XeF_6 be prepared? Give chemical equation.

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