

Q. 1. What do you understand by

- (a) Atomic radius
- (b) Valency & Oxidation State
- (c) Effective nuclear charge

Inorg.
chem.

Q. 2. Define -

- (a) Ionic radius
- (b) Oxidation and Reduction ability
- (c) ~~van~~ van der Waals radius

Q. 3. Short Notes on

- (a) Ionisation Enthalpy
- (b) Acidic & Basic nature of oxides
- (c) Covalent radius

Q. 4. Explain the following terms

- (a) Electron gain Enthalpy
- (b) Electronegativity
- (c) Metallic nature

Q. Write short notes Kinetic Theory of Gases

- (b) van der Waals Equation.

(21-24)

Answer any two

5. Define the following terms

- (a) Ionisation Enthalpy
- (b) Electronegativity
- (c) Electron affinity

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6. Define the following terms

- (a) Mineral and ores
- (b) Calcination
- (c) Roasting

7. (a) What is meant by term
Chromatography

(b) Column chromatography

8. Describe some ores of given
metal (only two examples)

- (a) Aluminium
- (b) Iron
- (c) Copper
- (d) Zinc

9. (a) Short notes on Kinetic Theory of
gases

(b) Vanderwaals equation