

## Core I

(Inorganic Chem.) (19-22)

Q. Write notes on :

Pauli's exclusion Principle

Hund's rule

Aufbau's Principle

Q. Explain the terms :-

Ionisation Energy (I.E.)

Electron affinity (E.A)

Electronegativity (E.N)

Q. Define and Explain quantum numbers

Q. Write down the electronic configuration of the following

${}_{19}K$  ,  ${}_{30}Zn$  ,  ${}_{26}Fe$  ,  ${}_{28}Ni$

## Core II

Q. Write down the postulates of Kinetic Theory of Gases.

Q. What are Ideal & Real gases ?

Discuss the deviation of real gases from Ideal gases

Q. Write notes on Buffer solution

Q. Define Common Ion effect