Q 3. Answer the following questions.

- (i) Discuss law of Reciprocal Proportion with examples.
- (iii) An inorganic salt gave the following percentage composition:

Na = 29.11% , $\,$ 5 = 40.51% $\,$ 8. $\,$ 0 = 30.38% , Calculate the Empirical Formula of the salt.

- (iii) Discuss Aufbau's Principle and Hund's Rule.
- (iv) What is diagonal relationship with example.
- (v) Explain sp² hybridization with example.
- (vi) On the basis of VSEPR theory, predict the shapes of the following molecules/ions?
 - (a) 5F4

(b) NH4.

(c) H₃O"

(d) NH_2

(e) PCI

- (0) BiH_0
- (viii) State & explain Hess's Law of constant heat summation.
- (viii) What is Buffer Solution. Give its types.
- (ix) Give three methods of preparation of Alkynes.

SECTION D

Q 4. Answer the following questions.

(ii) What are Quantum numbers? Explain

Or

State and Explain Heisenberg 's Uncertainity Principle.

(iii) Define 1st Law of Thermodynamics. Derive its mathematical formulation.

OIL

Define Heat Capacity. Derive relation between Cp & Cv.

(III) Explain Nucleophilic Substitution Reaction.

Or

Write the IUPAC names of the following organic compounds:

Jam famil

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Ajnish Kumar Gupta, Bharti Gupta

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