**SOLID STATE (11)**

1. Coordination no.

2. Density formula (numerical)

3. Defects (numerical)

4. Shotkey defect

5. Frenkle defect

6. F center

7. N type and P type semiconductor.

8. Formula making.

SOLUTIONS (13)

1. Numerical (molarity, molality, mole fraction)

2. Henry's law, Henry's eqn. & Henry's constant

3. Numerical on colligative property & Colligative property with graph

4. Diff between (i) Ideal and non-ideal (ii) +ve and -ve deviation.

5. Vant hoffs factor.

**ELECTRO CHEMISTRY (11)**

1. Electrolysis

2. Faradays law (including numerical)

3. Nerst eqn.

4. Q 3.18

5. Cell

KINETICS (11)

1. Identity the order of reaction

2. Derivation of integrated rate eqn.

3. Numerical

4. Activation energy related eqn.

5. What is pseudo uni molecular reac.?

**ORGANIC (11 + 13 = 24)**

1. Mechanism of Sn1 or sn2 or hydration of alkene or dehydration of alcohol

2. Name reactions.

3. Distinguish between -

(i) Primary secondary tertiary

(ii) Phenol and other alcohol

4. Conversion -

(i) 1-ene to 2-ene

(ii) Markovnikov & Anti-Markovnikov

5. Ether + HI = product

6. **Q19** of Haloalkanes

7. Limitations of Williamsons Synthesis

8. What is Chirality?

9. What is Racemic mixture?