

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 S_N1 or S_N2 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?