K. S. SCHOOL OF ENGINEERING AND MANAGEMENT

Department of Science & Humanities

Engineering Chemistry Laboratory

LIST OF EXPERIMENTS

PART-A

- 1. Potentiometric estimation of FAS using standard K₂Cr₂O₇ solution.
- 2. Colorimetric estimation of Copper.
- 3. Conductometric estimation of an Acid mixture using standard NaOH solution.
- 4. Flame Photometric estimation of Sodium and Potassium in the given sample of Water.
- 5. Determination of pKa of a weak acid using pH Meter.
- 6. Determination of Viscosity co-efficient of a given liquid using Ostwald's Viscometer.

PART-B

- 1. Determination of Total Hardness of a sample of Water using Disodium salt of EDTA.
- 2. Determination of CaO in the given sample of Cement by Rapid EDTA method.
- 3. Determination of Percentage of Copper in Brass using standard Sodium thiosulphate solution.
- 4. Determination of Iron in the given sample of Haematite ore solution using Potassium dichromate Crystals by external indicator method.
- 5. Determination of COD of the given Industrial Waste water sample.
- 6. Estimation of Percentage of available chlorine in the given sample of Bleaching power.



K. S. SCHOOL OF ENGINEERING AND MANAGEMENT

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Engineering Physics Laboratory

LIST OF EXPERIMENTS

- Determine wavelength of semiconductor laser using Laser diffraction.
- Estimation of Fermi Energy of copper.
- Determination of spring constants in Series and Parallel combination.
- Study of input and output Transistor characteristics and hence calculate input resistance, output resistance and amplification factor.
- Calculation of Dielectric constant by RC charging and discharging.
- Study Series and Parallel LCR resonance and hence calculate inductance, band width and quality factor using series LCR Resonance.
- n and I by Torsional pendulum.
- Radius of curvature of plano-convex lens using Newton's rings.
- Determine Acceptance angle and Numerical aperture of an optical fibre.
- Draw photodiode characteristics and calculate power responsivity.
- Young's modulus of a beam by Single Cantilever experiment.
- Determination of Magnetic field intensity along the axis of a circular coil carrying current by deflection method.

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