Raniganj Girls' College Chemistry Department

Physical Chemistry Questions for sem III(C-VII)

- 1. What is Clausius inequality?
- 2. Write Gibbs-Helmholtz equation and its significance.
- 3. What is inversion temperature?
- 4. Show that joule Thomson expt is isoenthalpic process.
- 5. Define Entropy.
- 6. Entropy is a measure of randomness- Explain.
- 7. Establish Gibbs Duhem equation.
- 8. What is chemical potential?
- 9. What is the difference between order and molecularity of a reaction?
- 10. Establish the rate expression for a first order reaction.
- 11. Establish the rate expression for a 2nd order reaction.
- 12. For a first order reaction , show that half life period is independent of its initial concentration.
- 13. For a 2nd order reaction , show that half life period is inversely proportional its initial concentration.
- 14. Describe Arrhenius equation.
- 15. Write short notes on pseudo-first order reaction.