



Satyaniketans

**Adv. M. N. Deshmukh Arts, Science and Commerce
College Rajur**

Department of Chemistry

FYBSc Sem- I

Chemistry Paper I (Physical Chemistry)

Tutorial No- 1

Date- 17/09/2019

Que- Answer the following

- 1) State First Law of Thermodynamics in at least three different ways.
- 2) Define 'Bond Energy'. How is bond energy of a bond calculated for a polyatomic molecule?
- 3) Define Standard enthalpy of formation and standard enthalpy of combustion.
- 4) Explain different types of chemical equilibria.
- 5) What is law of mass action?
- 6) What are electrolytes? Explain the types of electrolytes .
- 7) Define degree of Ionisation . Explain the factors affecting on degree of ionisation.
- 8) What are buffer solutions? Explain the types of buffer solutions.
- 9) What is pH? Derive the Henderson- Hasselbalch equation of acidic buffer.
- 10) Explain the term solubility and solubility product of sparingly soluble salt with example.