

**PROGRAMME NAME: M.Sc. (CHEMISTRY)**  
**YEAR: II**  
**SEMESTER-III**  
**COURSE NAME: BIO-ORGANIC & BIO-INORGANIC CHEMISTRY**

Note:-attempt all questions.

- Que.1 Structure of prokaryotic and eukaryotic cells.
- Que.2 Write notes on ATP- the biological energy currency.
- Que.3 Write chemical and enzymatic hydrolysis of protein to peptide.
- Que.4 Give details about triple helix structure of collagen.
- Que.5 Structure of RNA and DNA.
- Que.6 Write of chemical and enzymatic hydrolysis of uric acids.
- Que.7 What is  $\text{Na}^+ - \text{K}^+$  pump.
- Que.8 Write details about Mg -Ca complex with nucleic acid.
- Que.9 Give details about nitrogen in biosphere.
- Que.10 what is nitrogen cycle.