

148-NR

M.D. DEGREE EXAMINATION – APRIL, 2015
BIOCHEMISTRY

Paper-I: Physical chemistry and organic chemistry.

Time: 3 Hours

Max. Marks:100

Note: Answer all questions

All questions carry equal marks

Draw neat diagrams wherever necessary

WRITE SHORT ESSAYS ON THE FOLLOWING:

- 1) Types and applications of Immuno-electrophoresis.
- 2) Ion sensitive electrodes in Blood gas analysis.
- 3) Composition and functions of Specialized proteins in Extracellular matrix.
- 4) Methods to determine Primary structure of Proteins.
- 5) Pre-analytical variables.
- 6) Cytochrome P 450 Mono-oxygenase system.
- 7) Shuttle systems across Membrane.
- 8) Principle and applications of HPLC (High performance liquid chromatography).
- 9) Derive Michaelis – Menten equation. Add a note on significance of K_m and V_{max} .
- 10) Methods and principles of estimation of Glycated Hemoglobin and its Clinical significance.
