

QP Code:103114

Reg. No.:.....

**PG Degree Supplementary Examinations in Physiology (MD)
July 2025**

Paper III - Physiological Chemistry, Biophysics and Radiation Biology

Time: 3 hrs

Max marks:100

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*

Essay:

(20)

1. Compare and contrast the molecular basis of muscle contraction & relaxation in skeletal and smooth muscle fibres.

Short essays:

(8x10=80)

2. Role of T cell lymphocytes in immunity.
3. Up and down regulation of receptors in health and disease.
4. Patch clamp technique.
5. Renal function tests.
6. Role of G proteins in signal transduction.
7. Visual evoked potentials.
8. Gibb's Donnan effect.
9. Antioxidants and its effect in ageing.
