

QP Code:103114

Reg.No.:.....

**PG Degree Supplementary Examinations in Physiology (MD) -
November 2013**

Paper III - Physiological Chemistry, Biophysics and Radiation Biology

Time: 3 hrs

Max marks:100

- *Answer all questions*
- *Draw diagrams wherever necessary*

Essays: (20)

1. Describe the Laplace law and its application in physiology

Short essays: (8x10=80)

2. Osmo receptors in regulation of ECF
3. Inhibitions in spinal cord.
4. Electrochemical equilibrium across the cell membrane
5. Isotopes and their uses in physiology
6. Smooth muscle contraction
7. Siggard Anderson curve nomogram
8. Molecular motors
9. Pressure volume relationship in urinary bladder
