

QP Code:103114

Reg.No.:.....

PG Degree Examinations in Physiology (MD) - May 2017

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 vector analysis of potentials recorded in ECG.

Short essays: (8x10=80)

2. Gibbs-Donnan equation.
3. Buffering of hydrogen ion in the body fluids.
4. Compliance of lungs
5. Explain starling's forces with examples.
6. Explain physics of gas diffusion and gas partial pressures.
7. Pupillary aperture on depth of focus
8. Biological effects of radiation.
9. Explain muscle metabolic systems in exercise
