

QP Code:103114

Reg. No.:.....

PG Degree Examinations in Physiology (MD) April 2019

Paper III - Physiological Chemistry, Biophysics and Radiation Biology

Time: 3 hrs

Max marks:100

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

Essay:

(20)

1. Molecular basis of smooth muscle contraction and relaxation.

Short essays:

(8x10=80)

2. Explain the rotational and linear acceleration.
3. Name the taste receptors and the signal transduction mechanism.
4. Describe the process involved in modulation of transmission in pain pathways.
5. Circadian rhythms and the role of superchiasmatic nucleus in its regulation.
6. Starling forces.
7. Physiological effects of glucocorticoids.
8. Effects of radiation.
9. Mechanism of gas exchange in lungs
