

QP Code:103114

Reg. No.:.....

**PG Degree Supplementary Examinations in Physiology (MD)
October 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. Describe pressure and volume changes during phases of cardiac cycle with applied aspect.

Short essays: (8x10=80)

2. Describe frank starling's law and explain physiological importance and application
3. Endocochlear potential and electrophysiology of hearing
4. Evoked cortical potential
5. Describe buffers in blood and add a note on Henderson-Hasselbalch equation
6. Cystometrogram and its importance
7. Hazards of radiation and prevention
8. Describe the chemical structure and synthesis of insulin
9. Second messengers
