

QP Code:103114

Reg. No.:.....

**PG Degree Regular/Supplementary Examinations in Physiology  
(MD) June 2020**

**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. Explain the theories of aging and its applied importance

**Short essays:**

**(8x10=80)**

2. Poiseuille's law and its applied aspect
3. Mechanics of skeletal muscle contraction
4. Describe airway resistance and lung compliance
5. Describe aortic pressure during cardiac cycle
6. The forces regulating glomerular filtration
7. Discuss the properties of action potential
8. DNA fingerprint
9. Effects of ionizing radiation in the body

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