

QP Code:103114

Reg. No.:.....

**PG Degree Supplementary Examinations in Physiology (MD)  
January 2024**

**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. Describe the structure of Neuromuscular junction and the mechanism of transmission of impulse across neuromuscular junction in skeletal muscle

**Short essays:**

**(8x10=80)**

2. Law of projection of sensory receptors
3. Electroretinogram
4. Wallerian degeneration and regeneration of injured nerve fibres
5. Serotonin
6. Discuss the law of Laplace as applicable to human physiology
7. Microgravity
8. Physiological principles underlying metabolic acidosis and its management
9. Diagnostic role of flow volume loop

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