

QP Code:103114

Reg. No.:.....

**PG Degree Regular/Supplementary Examinations in Physiology  
(MD) June 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. Role of lymphocytes in immunity.

**Short essays:**

**(8x10=80)**

2. Describe the sequence of events occurring at neuromuscular junction.
3. Body fluid compartments and measurements of body fluid volumes.
4. Explain biphasic and compound action potential.
5. Explain the relationship between velocity and pressure with the help of Bernoulli's principle.
6. Anion gap
7. Role of cyclic AMP in cellular functions.
8. Polysomnography.
9. Role of chemical messenger in cell communications.

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