

**PG Degree Regular/Supplementary Examinations in Physiology
(MD) January 2025**

Paper IV - Applied Physiology Including Recent Advances

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. Theories of programmed cell death. Add a note on their significance.

Short essays:

(8x10=80)

2. Effects of climate change on humans.
3. Compare the electrical activity across the skeletal, smooth and cardiac muscle cells.
4. Impedance Audiometry
5. Decompression sickness.
6. Recombinant DNA technology.
7. Recent advances in medical treatment of diabetes mellitus.
8. Antioxidant.
9. DNA fingerprinting.
