

QP Code:101114

Reg. No.:.....

**PG Degree Supplementary Examinations in Physiology (MD)
November 2021**

**Paper I – General Physiology, Neuro Physiology including Special Senses and
Endocrinology including Reproductive Physiology**

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 role of parathyroid hormone, vitamin D₃ and calcitonin in maintaining calcium and phosphate homeostasis.

Short essays:

(8x10=80)

2. Describe the physiological functions of placenta.
3. Explain how the receptors in the semi-circular canal detect rotational acceleration.
4. Explain the role of the posture regulating parts of the central nervous system.
5. Explain the contributions of the processes of exocytosis and endocytosis to normal cell functions.
6. Discuss the role of serotonin in mood and behaviour.
7. Describe the role of oestrogen on regulation of prolactin secretion.
8. What is accommodation. Describe its physiological significance.
9. Explain the physiological changes during REM and NREM sleep.
