

PG Degree Supplementary Examinations in Physiology (MD)
November 2022

**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. Discuss in detail the physiology of pain perception and endogenous pain relief systems.

Short essays:

(8x10=80)

2. G proteins.
3. Patch clamping.
4. Regulation of skeletal muscle tone and its disturbances in neurological disorders.
5. Wald visual cycle and its application.
6. Physiological basis of microvascular and macrovascular complications of diabetes mellitus.
7. Physiological basis of symptoms in hyperthyroidism.
8. Endometrial and breast changes during menstrual cycle.
9. Oral contraceptive pills.