

QP Code:101114

Reg. No.:.....

**PG Degree Regular/Supplementary Examinations in Physiology  
(MD) July 2023**

**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 aetiology, physiological basis of signs and symptoms, management of Addison's disease. Add a note on Addison's crisis.

**Short essays:**

**(8x10=80)**

2. Genesis of resting membrane potential.
3. Prostaglandins – synthesis, types and functions.
4. Regulation of female sexual cycle by Hypothalamo-hypophyseal ovarian axis.
5. Circadian rhythm.
6. Connections of basal ganglia. Physiological basis of hypokinetic and hyperkinetic lesions of basal ganglia.
7. Properties of synapse.
8. Papez's circuit of emotion.
9. Conduction and transduction of sound waves in ear.

\*\*\*\*\*