



**J-M20174**

Seat No. \_\_\_\_\_

**First Year M. B. B. S. Examination**

September/October - 2019

**Physiology : Paper - II**

Time : 3 Hours]

[Total Marks : 50

- Instructions :**
- (1) Write answer of each section in separate Answer book.
  - (2) Answer should be brief and draw necessary Diagrams.
  - (3) Illegible writing will not fetch any marks.
  - (4) Figures to the right indicate full marks.

**SECTION - I**

- 1 Describe Origin, courses, functions and effects of Pyramidal tracts. 8

**OR**

- 1 Describe the functions and disorders of Thalamus. 8

- 2 Write note on : 8

- (a) Layers of Retina **OR** Semi-circular canals
- (b) Negative feedback Mechanism **OR** Properties of smooth muscle

- 3 (a) Describe the mechanism of contraction in skeletal muscle. 5

- (b) Explain in few sentences : 4

- (a) Damage to Wernicke's area causes aphasia.
- (b) Sympathetic nervous system is also called catabolic nervous system.
- (c) Cones are necessary for colour vision.
- (d) Cylindrical lens is used to correct astigmatism.

## SECTION - II

- 4 Discuss the functions and regulation of secretion of Insulin. 8
- OR**
- 4 Describe the functions and abnormalities of thyroid hormones. 8
- 5 Write note on : 8
- (a) Menstrual cycle **OR** Puberty
- (b) Acromegaly **OR** Addison's Disease.
- 6 (a) Enumerate the methods of contraception in females. 5
- (b) Explain in few sentences : 4
- (a) Polyuria occurs in Diabetes Mellitus.
- (b) Loss of hippocampal fibers may render long term memory loss.
- (c) REM sleep is called Paradoxical sleep.
- (d) Hypertonia is observed in upper motor neuron lesions.
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