



**J-4651**

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

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

**September / October - 2019**

**Physiology : Paper - II**

Time : 3 Hours]

[Total Marks : 50

- Instructions :** (1) Write answers of each section in separate answer book.  
(2) Answers 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 pyramidal tract. Also mention a difference between Upper motor and Lower motor neuron lesions. **8**
- OR**
- Describe connections, functions and disorders of Basal ganglia.
- 2 Write notes on : **8**
- (A) Pupillary reflexes
- OR**
- Mechanism of hearing
- (B) Genesis of action potential
- OR**
- Passive transport
- 3 (A) Describe clinical significance of receptors of autonomic nervous system. **5**
- (B) Explain in few sentences : **4**
- (a) Positive feedback control system helps in parturition.
- (b) An aged myopic person may not need glasses for reading.

- (c) Energy is utilized in both contraction and relaxation of muscle
- (d) Rod receptors potentials are hyperpolarizing

**SECTION - II**

- 4 Describe the functions, control and disorders of glucocorticoid hormones. 8
- OR**
- Describe the functions, control and disorders of posterior pituitary hormones.
- 5 Write notes on : 8
- (A) Endocrinal functions of testes
- OR**
- Contraceptives in females
- (B) Growth hormone
- OR**
- Mechanism of action of hormones
- 6 (A) Discuss the clinical importance of primary active transport. 5
- (B) Explain in few sentences : 4
- (a) Adrenal medulla is not essential for life
  - (b) REM sleep is also called paradoxical sleep.
  - (c) Damage to Wernicke's area causes sensory aphasia.
  - (d) Only one sperm enters the oocyte.
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