



PH-M20174

Seat No. _____

First Year M. B. B. S. Examination

July - 2018

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 mark.
 - (4) Figures to the right indicate full marks.

SECTION - I

- 1 Describe the physiological and EEG changes during sleep. 8
Also mention a note on sleep disorders.
- OR**
- Describe connections, functions and abnormalities of Cerebellum. 8
- 2 Write notes on : 8
 - (a) Lesions of visual pathways **OR** Electrophysiology of hearing
 - (b) Graded potential **OR** Passive transport.
- 3 (a) Describe the receptors in the Autonomic nervous system. 5
 - (b) Explain in few sentences : 4
 - (a) At the onset of menopause, FSH and LH increases.
 - (b) Watching TV for long periods may produce severe headache.
 - (c) Skeletal muscle can be tetanized.
 - (d) Polyphagia occurs in Diabetes mellitus in spite of having hyperglycaemia.

SECTION - II

- 4 Describe the functions, control and disorders of mineralocorticoid hormones. 8
- OR**
- Describe the hormones regulating calcium metabolism and mention a note on its applied aspect. 8
- 5 Write notes on : 8
- (a) Spermatogenesis **OR** Newer Contraceptives
- (b) Posterior pituitary hormones **OR** Mechanism of action of hormones.
- 6 (a) Discuss the clinical importance of Cell junctions. 5
- (b) Explain in few sentences : 4
- (a) Sympathetic nervous system is also called catabolic nervous system.
- (b) Damage to Wernicke's area causes fluent aphasia.
- (c) Affected muscles are paralyzed in lower motor neuron lesion.
- (d) Sniffing helps in better perception of smell.
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