



PH-4651

Seat No. _____

First Year M. B. B. S. Examination

July - 2018

Physiology : Paper - II

Time : 3 Hours]

[Total Marks : 50

- Instructions :**
- (1) Answer to the point.
 - (2) Figures to the right indicate marks.
 - (3) Draw diagrams wherever necessary.
 - (4) Write legibly.
 - (5) Use separate answer books for each section.

SECTION – I

- 1 Describe in detail connections and functions of hypothalamus. 8

OR

Define and classify synapse. Discuss in detail properties of synapse.

- 2 Write short notes on : 8
- (a) Errors of refraction **OR** Organ of corti
 - (b) Passive transport **OR** Homeostasis.

- 3 (a) Describe physiology of smell sensation. 5
- (b) Explain briefly : 4
- (1) Diabetic patients fail to gain weight inspite of polyphagia.
 - (2) Sympathetic division of ANS is referred as catabolic nervous system.
 - (3) Sudden exposure to sunlight makes one blind for a short time.
 - (4) Skeletal muscle can be tetanized.

SECTION – II

- 1 Describe in detail actions and regulation of glucocorticoid hormones. 8

OR

Describe in detail synthesis and actions of thyroid hormones.

- 2 Write short notes on : 8
- (a) Spermatogenesis **OR** Pregnancy diagnosis tests
 - (b) Gigantism **OR** Tetany.
- 3 (a) Discus structure and transmission of impulse at neuromuscular junction. 5
- (b) Explain in 2-3 sentences. 4
- (1) What is law of projection ?
 - (2) What is chronaxie ?
 - (3) Adrenal medulla is not essential for life.
 - (4) Menstrual blood does not clot normally.
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