



MAL-4651

Seat No. _____

First Year M. B. B. S. Examination

October / November – 2016

Physiology : Paper - II

Time : 3 Hours]

[Total Marks : 50

- Instructions :** (1) Write each section in separate answer books.
(2) Write legibly and precisely.
(3) Draw diagram whenever necessary.

SECTION - I

- 1 Enumerate hypothalamic nuclei and describe functions of hypothalamus in detail. 8

OR

- 1 Describe structure of vestibular apparatus and its role in equilibrium. 8

- 2 Write short notes : 8
(a) Errors of refraction.

OR

Tests for hearing.

- (b) Genesis of Resting membrane potential.

OR

Secondary active transport.

- 3 (a) What is sleep ? Describe types, stages and mechanism of sleep. 5

- (b) Explain in a few sentences : 4

(i) Damage to Wernicke's area causes aphasia.

(ii) L-dopa is used to treat Parkinson's disease.

(iii) Rigidity of muscle is seen in Extraparamidal Lesions.

(iv) The optic disc is known as blind spot.

SECTION – II

- 4 Describe hypothalamic control of Pituitary hormonal secretions and disorders of growth hormone secretions. 8

OR

- 4 Describe mechanisms of hormonal action.

- 5 Write short notes : 8

(a) Hormonal regulations of menstrual cycle.

OR

Spermatogenesis.

(b) Functions of Insulin.

OR

Calcitonin.

- 6 (a) Describe mechanism of contraction and properties of Cardiac muscle. 5

(b) Explain in a few sentences : 4

(i) Exophthalmos occurs in Grave's disease

(ii) Polyphagia occurs in diabetes mellitus.

(iii) Amenorrhea occurs during lactation.

(iv) Hypothyroidism can be diagnosed on phone.
