



**MF-4651**

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

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

**July - 2016**

**Physiology : Paper - II**

Time : 3 Hours]

[Total Marks : 50

- Instructions :**
- (i) Write answers of each section in separate answer books.
  - (ii) Answers should be brief and draw necessary diagrams.
  - (iii) Write legibly.
  - (iv) Figures to right indicate full marks.

**SECTION - I**

- 1 Define and classify receptors. Discuss in detail receptor potential and 8 properties of receptors.

**OR**

- 1 Describe origin, extent, termination and functions of pyramidal tracts. 8 Add a note on hemiplegia.

- 2 Write notes on : 8

- (a) Colour vision **OR** Errors of refraction.
- (b) Primary active transport **OR** Homeostatic regulation.

- 3 (a) Discuss deafness and tests for hearing. 5

- (b) Explain briefly : 4

- (i) Chromatolysis
- (ii) Alpha motor neuron acts as "final common path"
- (iii) Aldosterone escape
- (iv) Bell magendie law

## SECTION - II

4 Enumerate hormones secreted by pituitary gland. Describe actions of growth hormone and add a note on gigantism. 8

**OR**

4 Describe in detail hormones regulating calcium metabolism. 8

5 Write notes on : 8

(a) Testosterone **OR** Puberty

(b) Pregnancy diagnostic tests **OR** Menopause

6 (a) Define neuromuscular junction. Describe structure of neuromuscular junction and sequence of events occur at transmission of impulse. 5

(b) Explain briefly : 4

(i) In myxoedema oedema is non-pitting.

(ii) Troponin-tropomyosin complex is also called relaxing protein.

(iii) Incidence of osteoporosis increase in females after menopause.

(iv) Attenuation reflex.

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