

XX-101

D/ME-4651

First Year M.B.B.S. Examination

January-2015

Physiology : Paper – 2

Faculty Code : D/ME

Subject Code : 4651

Time : 3 Hours]

[Total Marks : 50

- Instructions :**
- (1) Write answers of each section in separate answer books.
 - (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. Explain the functions and disorders related to hypothalamus. **8**

OR

Describe the functions and disorders related to basal ganglia.

2. Write notes on : **8**

- (a) Attenuation reflex **OR** Impedance matching.
- (b) Structure and functions of cell membrane. **OR** Apoptosis.

3. (a) Discuss the physiology of taste sensation. **5**

- (b) Explain briefly : **4**

- (i) On repeated stimulation, skeletal muscle get fatigued.
- (ii) Diabetic patient fails to gain weight inspite of polyphagia.
- (iii) Parasympathetic division of A.N.S. is sometimes referred as anabolic nervous System.
- (iv) Reading or close work becomes progressively difficult with advancing age.

SECTION - II

4. Describe the synthesis, functions and regulations of thyroxin. **8**

OR

Describe the physiological role of neurohypophysis in the body.

5. Write notes on : **8**

- (a) Spermatogenesis **OR** Physiological changes during pregnancy.
(b) Lactation **OR** Menopause.

6. (a) Describe the structure of sarcomere and give the mechanism of contraction of muscle. **5**

- (b) Explain briefly : **4**

- (i) Normally, menstrual blood does not clot.
(ii) Growth hormone is also known as diabetogenic hormone.
(iii) Tenderness and swelling of breasts prior to menstruation.
(iv) Sniffing helps in better perception of smell.
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