

Q.P. Code: 1401

Reg. no.: .....

First Professional MBBS Degree Supplementary Examinations, March 2012

## PHYSIOLOGY- PAPER II

Time: 3 Hours

Total Marks: 50

- Answer all questions
- Draw Diagrams wherever necessary

Long Essay:

(10)

1. A patient developed carpopedal spasm after thyroid surgery. During examination, tapping over the facial nerve resulted in contraction of facial muscles

- What is the clinical diagnosis, mention the cause
- What is the clinical sign elicited by tapping the facial nerve.
- Name one another clinical sign elicited in this condition and how is it elicited
- Name the hormones pertaining to the clinical condition. Describe the functions of any one of them.
- What treatment would you recommend for the patient (2+1+2+3+2=10)

Short Essay:

(2x5=10)

2. Describe the role of hypothalamus in the regulation of food intake.
3. Connections and functions of basal ganglia.

Write briefly on

(5x3=15)

4. Tests for ovulation
5. Physiological actions of glucagon on carbohydrate metabolism
6. Hormones regulating spermatogenesis.
7. Describe the role of basilar membrane in frequency discrimination
8. Accommodation reflex

Draw and label

(2x2½=5)

9. Posterior column tracts
10. Mechanism of action of thyroid hormone on intracellular receptor

Explain the physiological basis of the following

(5x2=10)

11. Sensory homunculus
12. Reciprocal innervation
13. Contraceptive pills
14. Fluent aphasia
15. Glucocorticoids in stress

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