

Q.P.Code:104001

Reg. no.:

First Professional MBBS Degree Examinations, August 2012

Physiology – Paper II

Time: 3 Hours

Total Marks: 50

- Answer all questions
- Draw diagrams wherever necessary

Long essay: (10)

1. A 30 years old female visits a clinic with the complains of weight gain, hoarseness of voice and irregular periods for the past 3 months. Her blood investigations showed decrease in the T3 and T4 levels and increase in the TSH level
 - What is the clinical diagnosis
 - Describe the clinical features and their physiological basis
 - Discuss the steps involved in the synthesis of the hormone (2+5+3=10)

Short essays: (2x5=10)

2. Role of aldosterone in maintaining ECF sodium concentration
3. Tests for ovulation

Answer briefly: (5x3=15)

4. Functions of CSF
5. Cushing's syndrome.
6. Impedance matching
7. Adaptation of receptors
8. Functions of oestrogen

Draw and label: (2x2½=5)

9. Visual pathway
10. Stretch reflex and inverse stretch reflex

Explain the physiological basis of the following (5x2=10)

11. Lactation amenorrhea
12. Maximal visual acuity occurs at the fovea centralis
13. Fever during infection
14. Broad based gait in cerebellar lesion
15. Hearing is impaired during severe cold or sore throat
