

2010 Scheme

Q.P. Code: 104001

Reg. No.:

First Professional MBBS Degree Supplementary Examinations July 2023

Physiology – Paper II

Time: 3 Hours

Total Marks: 50

- Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space
- Answer all parts of a single question together • Leave sufficient space between answers
- Draw table/diagrams/flow charts wherever necessary

Long essay

(10)

1. A 52-year-old housewife complains of progressive weight gain of 10 kg in 1 year, fatigue, loss of memory, slow speech, deepening of her voice, dry skin, constipation, and cold intolerance. On examination her pulse was 58 beats/min, she was moderately obese with a puffy face, non-pitting edema on the lower limbs, the Thyroid gland appeared enlarged, and deep tendon reflexes were delayed.
 - a) What is the patient suffering from
 - b) What blood investigations should be done to confirm the diagnosis
 - c) Describe the biosynthesis and functions of the hormone causing this disorder

(1+2+7)

Short essays

(2x5=10)

2. Describe the different refractive errors in vision and methods of correcting them.
3. Explain the functions of the hypothalamus.

Answer briefly

(5x3=15)

4. What are positive and negative feedback mechanisms. Give examples of each.
5. Write a note on cerebrospinal fluid.
6. Excitation contraction coupling.
7. Functions of the placenta.
8. Enumerate the functions of androgens during puberty.

Draw and label

(2x2½=5)

9. Pain pathway.
10. Muscle spindle.

Explain the physiological basis of the following

(5x2=10)

11. Menopause.
12. Polyuria in Diabetes mellitus.
13. Night blindness.
14. Hypertonia in UMN lesion.
15. Muscle weakness in Myasthenia gravis.
