

2010 Scheme**Q.P. Code: 104001****Reg. No.:****First Professional MBBS Degree Supplementary Examinations
July 2024****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 70 year old man was brought with tremors of both hands. On examination he had tremors at rest, face was expression less and gait was short and shuffling. His muscle tone was increased

- a) Name the most probable clinical condition in this patient
- b) Describe the physiological basis for any three of his clinical features
- c) Depict the steps of neruo-muscular transmission using a flow chart (1+6+3)

Short essays (2x5=10)

2. Discuss in detail the physiological functions of aldosterone. Add a note on aldosterone escape.
3. Trace the pain pathway from the right (R) lower limb. Add a note on gate control theroy

Answer briefly (5x3=15)

4. Describe electroencephalogram (EEG) and its uses
5. Cushing's syndrome
6. Physiological basis of oral contraceptive pills
7. Describe in detail the uterine changes occuring during menstrual cycle
8. Describe impedance matching and its importance

Draw and label (2x2½=5)

9. Visual pathway
10. Thyroid hormone biosynthesis

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

11. Puberty
12. Polyphagia in diabetes mellitus
13. Babinski sign in UMN (Upper Motor Neuron) lesions
14. Oral Rehydration Solution (ORS) contains salt
15. Brown sequard syndrome
