

# 2010 Scheme

Q.P. Code: 104001

Reg. No.: .....

## First Professional MBBS Degree Supplementary Examinations January 2026

### 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 55 Year old man complaints of slowness in initiating movements and difficulty in movements. On examination he has tremors at rest, rigidity and he walks with short shuffling steps.
  - a) What is the most probable condition
  - b) Where is the site of lesion in this patient
  - c) Describe the patho-physiology
  - d) Describe the connections and functions of basal ganglia (1+1+2+6)

#### Short essays

(2x5=10)

2. Describe the actions of thyroid hormone
3. Describe the steps in spermatogenesis

#### Answer briefly

(5x3=15)

4. Myopia and astigmatism and their correction
5. List the placental hormones. Add a note on any one of them
6. Define Chronaxie and rheobase and utilization time
7. Describe the functions of primary active transport with an example
8. Blood brain barrier

#### Draw and label

(2x2½=5)

9. Draw and label the auditory pathway
10. Draw and label the fine touch pathway from the left lower limb

#### Explain the physiological basis of the following

(5x2=10)

11. Truncal obesity in Cushing's disease
12. Polyuria in untreated Type 2 diabetes mellitus
13. Gravindex test for pregnancy detection.
14. Referred pain
15. Tetany

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