

2010 Scheme

Q.P. Code: 104001

Reg. No.:

First Professional MBBS Degree Supplementary Examinations January 2025

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 45 year old female presents to the outpatient department with Complaints of increase in body weight by more than 10kgs, dry coarse skin, hoarseness of voice, increase in sleep duration and loss of appetite.
 - a) What is this condition
 - b) Describe the functions of thyroid hormone
 - c) Physiological basis for cretinism

(1+8+1)

Short essays

(2x5=10)

2. Describe the steps in transmission of impulses across a chemical synapse.
3. Describe temporary and permanent methods of contraception in females.

Answer briefly

(5x3=15)

4. Functions of sertoli cells.
5. Presbyopia and its correction.
6. Ionic basis of skeletal muscle action potential.
7. What are preload and after load in the skeletal muscle and give an example for preload condition in skeletal muscle.
8. Define menarche and menopause.

Draw and label

(2x2½=5)

9. Draw and label the fast pain pathway from its receptors in the right lower limb.
10. Draw and label the taste pathway.

Explain the physiological basis of the following

(5x2=10)

11. Purple striae in cushings syndrome
12. Babinski sign in upper motor neuron lesions
13. Hearing impairment can occur during common cold
14. Gigantism
15. Phantom limb pain
