

2010 Scheme

Q.P. Code: 104001

Reg. No.:

First Professional MBBS Degree Supplementary Examinations February 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 61 year old Senior Lawyer (male) in a law firm, while eating breakfast experienced sudden onset slurring of speech, and had facial droop on his left-hand side with weakness in his left side upper and lower limbs. His wife spotted these sudden onsets of symptoms and immediately called for an ambulance, which arrived within 15 mins and rushed him to the Emergency room of a hospital.

- a) What is the patient suffering from
- b) What examination and investigations should be done to confirm the diagnosis
- c) Describe the functions and connections of the pathway affected with a neat, labeled diagram

(1+3+6)

Short essays

(2x5=10)

2. Enumerate the events that occur at the neuromuscular junction of skeletal muscle when excited.
3. Name the hormones which affect serum calcium level. Describe their mode of action

Answer briefly

(5x3=15)

4. What is secondary active transport. Explain the types with examples.
5. Write briefly on Parkinsonism.
6. What is presbyopia and how is it corrected.
7. What is testosterone. Describe two important actions of this hormone.
8. Mention all the hormones that promote growth of the human body and write briefly on each.

Draw and label

(2x2½=5)

9. The hormonal changes in different phases of the menstrual cycle.
10. Stretch reflex.

Explain the physiological basis of the following

(5x2=10)

11. Oral Contraceptives
12. Diabetes insipidus.
13. Hearing impairment due to advancing age.
14. Saturation of transportation of substances in facilitated diffusion.
15. Myelinated nerves have higher velocity of conduction compared to unmyelinated nerves.
