

2010 Scheme

Q.P. Code: 104001

Reg. No.:

First Professional MBBS Degree Supplementary Examinations
February 2022

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

(10)

Long essay

1. A patient complains of difficulty in walking, talking and not able to perform rapid alternate movements. Answer the following questions based on your knowledge in physiology:

- Which part of brain is affected
- Enumerate the other manifestations of this lesion
- Describe the functional connections and functions of the part affected (1+3+6)

(2x5=10)

Short essays

2. Negative feedback mechanisms of hormonal control.
3. Resting membrane potential in a neuron and its ionic basis.

Answer briefly

(5x3=15)

4. Decerebrate rigidity.
5. Diabetes insipidus.
6. Accommodation reflex
7. Calorigenic action of thyroxin
8. Permissive action of hormone

Draw and label

(2x2½ =5)

9. Auditory pathway
10. Inverse stretch reflex pathway

Explain the physiological basis of the following

(5x2=10)

11. Sterility in man working in hot surroundings
12. Polyphagia of diabetes mellitus
13. Reading becomes progressively difficult with advancing age
14. Endogenous peptide produces analgesia
15. Long term memory is a function of synapse
