

**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

**Long essay****(10)**

1. A patient complaints 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)

**Short essays****(2x5=10)**

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 thyroxine  
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

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