

# **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 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)

#### **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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