

Q.P. Code: 104001

Reg. No.: .....

**First Professional MBBS Degree Supplementary Examinations  
September 2021****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 71 years old retired teacher presented with complaints of difficulty to start walking and tremor of hands. His wife often found his face "expressionless". Answer the following questions based on your knowledge in physiology:

- Name the commonest clinical condition causing the above complaints
- Diagrammatically represent the structure involved and its functional connections
- Enumerate its functions
- Briefly mention the physiological basis of treatment of this disease

**(1+4+3+2)****Short essays****(2x5 =10)**

2. Excitation contraction coupling
3. Actions of parathormone.

**Answer briefly****(5x3=15)**

4. Mechanism of action of steroid hormone
5. Dysdiadochokinesia (Adiadochokinesia)
6. Functions of hypothalamus
7. c-AMP as a second messenger
8. Cretinism

**Draw and label****(2x2½=5)**

9. Action potential in nerve
10. Optic pathway

**Explain the physiological basis of the following****(5x2=10)**

11. Anemia in hypogonadism of male
12. Safe period of family planning in females.
13. Diabetogenic effect of human growth hormone
14. Light reflex
15. Presbycusis

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