

Q.P. Code: 104001

Reg. No.: .....

**First Professional MBBS Degree Supplementary Examinations  
November 2020****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 with parathyroid hormone deficiency 10 days after inadvertent damage to parathyroid glands during thyroid surgery. Answer the following questions based on your knowledge in physiology:

- Explain the mechanisms underlying two clinical signs of parathyroid hormone deficiency
- Describe the physiological actions of parathyroid hormone
- Mention the normal blood calcium level and add a note on significance of intracellular calcium

**(2+5+3)****Short essays****(2x5=10)**

2. Describe any five functions of oestrogen  
3. Describe colour blindness

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

4. Functions of cerebellum  
5. Impedence matching  
6. Babinski sign  
7. List clinical features of cretinism  
8. Capacitation of sperms

**Draw and label****(2x2½=5)**

9. Nerve action potential in relation to ionic fluxes  
10. Pyramidal tract

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

11. Referred pain  
12. Copper – T  
13. Tympanic reflex  
14. Vestibulo ocular reflex  
15. Non shivering thermogenesis

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