



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)

- Describe any five functions of oestrogen
- Describe colour blindness

Answer briefly (5x3=15)

- Functions of cerebellum
- Impedence matching
- Babinski sign
- List clinical features of cretinism
- Capacitation of sperms

Draw and label (2x2½=5)

- Nerve action potential in relation to ionic fluxes
- Pyramidal tract

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

- Referred pain
- Copper – T
- Tympanic reflex
- Vestibulo ocular reflex
- Non shivering thermogenesis

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