

SS/MBBS/PHY-II/6-19

First Professional MBBS Examination

2019

(June)

PHYSIOLOGY

Paper-II

Full Marks: 50

Time: 2 hours

The figures in the margin indicate

full marks for the questions

Write the answers to the two Halves in separate books

Answer all questions

FIRST HALF

1. Enumerate the features of upper and lower motor neuron lesion. What is Brown-Sequard syndrome and its important changes? What is Babinski's sign?
[4 + 4 + 2 = 10]

Or

Name the ascending tracts of spinal cord. Trace the pain pathway from periphery to centre. What is gate control theory of pain? [3 + 5 + 2 = 10]

2. Write short notes on any three of the following :

- (a) Synaptic inhibition
- (b) Aphasia
- (c) Layers of cerebral cortex
- (d) Tetany

3. Write the difference between any three of the following :

- (a) EPSP and IPSP
- (b) Primary memory and Secondary memory
- (c) Isotonic contraction and Isometric contraction
- (d) Decerebrate rigidity and Decorticate rigidity

SECOND HALF

4. Classify the hormones. Explain briefly the mechanism of action of hormone with example. What is gigantism? [2+6+2=10]

Or

Name the photoreceptors. Trace the visual pathway with diagram. What is physiological scotoma? [2+6+2=10]

5. Explain physiological bases of the following : $3 \times 2 = 6$

- (a) Exophthalmos is seen in Graves' disease
- (b) Hypermetropia is corrected by convex lens

6. Write briefly on any three of the following : $3 \times 3 = 9$

- (a) LH surge
- (b) Addison's disease
- (c) Cerebrospinal fluid
- (d) Milk ejection reflex

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