

SS/MBBS/PHY II/6-18**First Professional MBBS Examination****2018****(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. Describe the mechanism of excitation-contraction coupling in skeletal muscle. What is Myasthenia Gravis? (8+2=10)

Or

What are primary taste sensations? Describe how taste sensation is carried from periphery to centre. What is dysgeusia? (2+6+2=10)

2. Write short notes on (any three) : (3 x3 = 9)

(a) Organ of Corti

(b) REM sleep

(c) Neuron

(d) Cretin

3. Differentiate the following (any three) : (3x2 = 6)

- (a) Receptor potential and action potential
- (b) Somatostatin and somatomedin
- (c) Chemical synapse and electrical synapse
- (d) Resting tremor and intention tremor

SECOND HALF

4. Name the hormones of posterior pituitary gland. Describe the functions of any one of them. What is diabetes insipidus? (2 + 6 + 2 = 10)

Or

Describe the origin, course and termination of the pyramidal tracts. Write features of upper motor neuron. (8 + 2 = 10)

5. Explain the physiological basis of the following : (3 x2 = 6)

- (a) If light falls in one eye the pupil of opposite eye also constricts
- (b) Phantom limb

6. Write briefly on any three of the following : (3 x3 = 9)

- (a) Cerebrospinal fluid
- (b) Babinski's sign
- (c) Myopia
- (d) Functions of testosterone

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