

SS/MBBS/PHY-II/7-16

First Professional MBBS Examination

2016

(July)

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. What are the components of basal ganglia? Write in brief its functions and mention the features of basal ganglia lesion.

$$[2+(5+3)=10]$$

Or

Describe neuromuscular junction and explain how action potential in motor neuron leads to contraction of skeletal muscle. What are the medicolegal importances of rigor mortis? (3+5)+2=10

- 2. Write short notes on any three of the following: 3×3=9
- (a) Lumbar puncture and its clinical importance
- (b) Effect of yoga and meditation on CVS
- (c) Babinski's sign and its importance
- (d) Exposure to cold environment



3. Differentiate between the following (any three) _	2×3=6	
(a) Clasp-knife rigidity and Lead-pipe rigidity		
(b) Primary memory and Secondary memory		
(c) Adrenergic nerve fibre and Cholinergic nerve fibre	re	
(d) REM sleep and NREM sleep		
SECOND HALF		
4. How many parathyroid glands are there? In what useful to human being? How can you diagnose a pa	, , , ,	
hypoparathyroidism from its clinical signs and symp	toms? 2+3+5=10	
Or		
Define menstrual cycle. Describe the role of hormonendometrial changes during menstrual cycle. What		
5. Explain the physiological basis of following:	3×2=6	
(a) Glucocorticoid used as an anti-inflammatory dru	g	
(b) Activity of vision is maximum when image formed	ed on fovea	
Kill 3		
6. Write short notes on any three of the following:	3×3=9	
(a) Cerebellar nystagmus		
(b) Blood-brain barrier		
(c) α block		
(d) Conductive deafness		
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