

SS/MBBS/PHY-II/7-17

First Professional MBBS Examination

2017

(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 pain receptors? Describe the pain pathway with a suitable diagram. What is referred pain? (2+6+2=10)

Or

Describe the corticospinal tract with a suitable diagram. Write the differences between upper motor neuron lesion and lower motor neuron lesion. (6+4=10)

Write short notes on any three of the following : (3x3 = 9)

- a) Muscle spindle
- b) Short-term memory
- c) EEG
- d) Thalamic syndrome

3. Write any three differences between the following : (3x3 =9)

- d) Graded potential and Action potential
- b) Intention tremor and Resting tremor
- c) REM sleep and Non-REM sleep
- d) Osteomalacia and Rickets

SECOND HALF

4. What are the different layers of adrenal cortex and hormones secreted by them? Write briefly the functions of glucocorticoids. What is Cushing's syndrome? (3 + 5 + 2 = 10)

Or

Describe the different phases of menstrual cycle along with the hormonal changes with each phase. What is lactational amenorrhoea? (3 + 5 + 2 = 10)

5. Write short notes on any three of the following : 3×3=9

- a) Action of testosterone
- b) Contraception
- c) Organ of corti
- d) Colour blindness

6. Write True or False : 1×6=6

- a) Hair growth in either sex is due to oestrogen.
- b) Glucocorticoids secretion is increased in stressful condition.
- c) Steroid receptors are found in cell membrane.
- d) Fasting blood glucose level is more than 140 mg/dl.
- e) Rods are required for scotopic vision.
- f) In Osteosclerosis there is conductive deafness.

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