

PBI 3002

First Year MBBS Examination

I MBBS Physiology Paper 2

Time: 3 hours

Marks: 50

Max

Instructions:

1. Answer to the points.
2. Figure to the right indicates marks.
3. Use separate answer books for each section.
4. Draw diagrams wherever necessary.
5. Write legibly.

Section 1

1. Explain in detail: (any two) (10)

- a. Describe the functions and regulation of secretion of thyroid hormones.
- b. Define GFR (Glomerular filtration rate). Describe factors affecting GFR
- c. Describe the actions and regulations of secretion of testosterone.

2A. Write brief notes on (any two) (6)

- a. Anti-diuretic hormone (ADH)
- b. Juxta-glomerular apparatus
- c. Addison disease

2B. Write brief on (any one) (3)

- a. Estrogen
- b. Dark adaptation

3. Give brief on (any two) (6)

- a. Errors of refraction
- b. Tympanic reflex
- c. Tetany

Section 2

4. Explain in detail (any two) (10)

- a. Parkinsonism- etiology, clinical features and treatment
- b. Connections and functions of cerebellum
- c. Brown-Sequard syndrome Explain its features in detail

5A. Write briefly on (any two) (6)

- a. Referred pain
- b. Saltatory conduction
- c. EEG

5B. Write briefly on (any one) (3)

- a. Neuroglia
- b. Inverse stretch reflex

6. Short explanatory objective questions: (6)

- a. Eunuchs are usually taller in height. Explain why?
- b. Action potential in neuron begins at initial segment. Explain why?
- c. Explain phenomenon of Phantom limb
- d. Syringomyelia causes dissociated Anaesthesia
- e. Exogenous testosterone causes infertility
- f. Why cornea is transparent?
- g. Weber's test is lateralized to affected ear in conductive deafness
- h. Why there is polydipsia in diabetic patients?
- i. Why exophthalmos is seen in Grave's disease?
- j. Albuminuria occur in glomerular disease. Explain why?