

Date: 12-08-2017

AF 3464

First Year MBBS Examination

I MBBS Physiology Paper 2

Time: 3 hours

Max Marks: 50

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 action and regulation of secretion of thyroid hormone. Write in brief about hypothyroidism.
 - b. What is GFR (Glomerular filtration rate)? Describe the factors affecting GFR.(A.320) (8.388)
 - c. Describe the uterine changes during menstrual cycle.
 2. Write brief notes on (any two) (6)
 - a. Vasopressin (A.636) (8.537)
 - b. Juxta Glomerular Apparatus (A.312) (8.380)
 - c. Endocrine functions of kidney (A.302)
 3. Write brief on (any one) (3)
 - a. Estrogen
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- b. Dark adaptation (A-1018) (B.210)
- 4. Give brief on (any two) (6)
 - a. Hypermetropia (A.1041)
 - b. Functions of testosterone (A.480) (8.640)
 - c. Tetany

Section 2

1. Explain in detail (any two) (10)
 - a. Name the ascending tracts of the spinal cord. Write in detail about dorsal column giving its course and functions.
 - b. What is synapse? Explain the structure, functions and properties of synapse. (A.817) (8.700)
 - c. Functions of Hypothalamus. (A.857) (8.739)
2. Write briefly on (any two) (6)
 - a. Functions of Limbic system
 - b. REM sleep (A.932)
 - c. Reflex Arc
3. Write briefly on (any one) (3)
 - a. Aphasia (A.945) (8.875)
 - b. Myasthenia Gravis (A.212) (8.65)
4. Short explanatory objective questions: (any 6) (6)
 - a. Intolerance to heat in hyperthyroidism
 - b. REM sleep is paradoxical sleep (A.932) (8.865)
 - c. Flaccid paralysis in lower motor neuron lesion
 - d. Name one inhibitory neurotransmitter found in CNS
 - e. Name one hormone secreted by posterior pituitary gland
 - f. Astigmatism is corrected by which type of lens?
 - g. Give one example of barrier contraception
 - ~~h. Insulin is used to measure GFR~~

- i. Acuity of vision is highest at fovea centralis
- j. Babinski's sign is positive in infants (A.831)

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