

**GV 3004**

## **First Year MBBS Examination**

### **I MBBS Physiology Paper 2**

Date: 12-08-2016

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. Enumerate the hormones secreted by pituitary gland. Describe the actions and regulations of secretion of growth hormone. Write in brief about effects of hyper secretion of anterior pituitary gland.
  - b. Describe the uterine changes during menstrual cycle.
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- c. What is countercurrent mechanism? Describe the anatomical and physiological basis of countercurrent mechanism in kidney. (A.329) (8.403)

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

- a. Oxytocin (A.382) (8.537)
- b. Micturition reflex (A.355) (8.432)
- c. Endocrine functions of kidney (A.302)

**28. Write brief on (any one) (3)**

- a. Progesterone
- b. Dark adaptation (A-1018) (8.210)

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

- a. Myopia
- b. Function of middle ear (A.1053) (8.924)
- c. Tetany

**Section 2**

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

- a. Functions and lesions of hypothalamus (A.857) (8.739)
- b. Receptors and pathways conducting pain and temperature sensations

c. Effects of hemi section of spinal cord

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

- a. Connections and functions of Basal Ganglia (A.880) (8.729)
- b. Synapse (A.817) (8.700)
- c. Sleep patterns and electroencephalogram

**58. Write briefly on (any one) (3)**

- a. Cerebellar function tests (B.722)
- b. Difference between upper motor neuron lesion and lower motor neuron lesions. (A.869) (8.711)

**6. Answer in 2-3 lines: (any six) (6)**

- a. In CNS degenerated nerve fibers never regenerate
  - b. L-Dopa is used to treat Parkinson's disease
  - c. Loss of Hippocampal fibers render long term memory loss
  - d. Sympathetic nervous system sometimes called catabolic nervous system
  - e. Urine output increases in Diabetes Insipidus
  - f. Exophthalmos is observed in hyperthyroidism
  - g. Women with elevated Prolactin levels be infertile
  - h. Fovea as the point of high visual acuity
  - i. When body feels cold shivering occurs
  - j. Damage to Wernicke's area causes aphasia
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- (A.945) (8.875)

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