

# First Year MBBS Examination

## I MBBS Physiology Paper 2

Time: 3 hours Max Marks: 50

Date: 06-08-2017

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. Enlist the hormones secreted by pancreas. Explain the functions and regulation of secretion of insulin.
    - b. What are the different stages of urine formation? Explain the role of glomerulus of nephron in the formation of urine.
    - c. What are the female sex hormones? Explain their actions.
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2A. Write brief notes on (any two) (6)

- a. Insulin
- b. Glomerulotubular feedback
- c. Photo transduction

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

- a. Presbyopia
- b. Cushing syndrome

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

- a. Juxtaglomerula apparatus
- b. Testosterone
- c. Tests for hearing

## Section 2

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

- a. Pyramidal Tract
- b. Functional anatomy. Functions and lesions of cerebellum
- c. Reflex arc and properties of reflexes

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

- a. Muscle Spindle
- b. Cerebrospinal Fluid
- c. Speech Pathway

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

- a. Parkinson's disease
- b. Brown Squared syndrome

6. Answer in two or three sentences: (6)

- a. Describe Renshaw cell inhibition
  - b. Define a receptor
  - c. Cardiac pain is felt on left arm
  - d. Hypothalamus is called "head ganglion of the Autonomic nervous system"
  - e. Insulin deficiency causes glycosuria
  - f. Adrenal cortex is essential for life
  - g. Urine is tested for early diagnosis of pregnancy
  - h. Old age person can read more clearly by keeping the book at distance
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- i. Normally proteins are not excreted in urine
- j. REM sleep is called paradoxical sleep

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