

**GDG 5604**  
**First Year MBBS Examination**  
**I MBBS Physiology Paper 2**  
**Date: 12-08-2013**  
**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) Spermatogenesis and its control (A.476) (8.637)
- b) Changes during Menstrual cycle
- c) Hormones acting on calcium metabolism

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

- a) Counter current mechanism (A.329) (8.403)
- b) Renal function test
- c) Factors affecting GFR (A.320) (8.388)

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

- a) Hemianopia
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b) Accommodation reflex (A.995) (B.894)

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

- a) Organ of Corti (A.1047)
- b) Auditory pathway
- c) Pathway for taste sensation (A.1061) (8.947)

**Section 2**

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

- a) Corticospinal tract with its functions
- b) Functions of Limbic system
- c) Mechanism of Inhibition and Facilitation at synapse (A.817) (8.700)

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

- a) Referred pain (A.873) (8.807)
- b) Aphasia (A.945) (8.875)
- c) Receptor potential (A.811)

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

- a) Parkinsonism (A.882) (8.730)
- b) Myasthenia Gravis (A.212) (8.65)

**6. Short explanatory objective questions (6)**

- a) Intolerance to heat in hyperthyroidism
  - b) Role of FSH hormone in male
  - c) Myopia is corrected by biconcave lens (A.1040) (8.896)
  - d) Tympanic reflex unable to protect tympanic membrane against gun shot sound
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- e) Babinski's sign is positive in deep sleep
- f) Flaccid paralysis in lower motor neuron lesion
- g)  $\text{Na}^+$  essential for Glucose reabsorption in kidneys
- h) Conduction of impulse is unidirectional in chemical synapse
- i) REM sleep is paradoxical sleep (A.932) (8.865)
- j) Tactile discrimination ability poor at back

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