

504-A

**M.B.B.S. DEGREE EXAMINATION – NOVEMBER, 2013**  
**FIRST M.B.B.S. EXAMINATION**  
**PHYSIOLOGY**  
**PAPER-II**

Time : 2 ½ Hours

Max. Marks : 50

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**Answer all questions**

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1) Draw a labelled diagram of muscle spindle. Explain the effects of stretch and stimulation of gamma motor neuron on spindle activity. 2+8=10

2) Discuss the hormonal, ovarian and uterine changes during menstrual cycle. 2+4+4=10

**WRITE SHORT NOTES ON:** 5x4=20

3) Refractive errors in eye and their correction

4) Hormones regulating plasma calcium level

5) Seminal fluid

6) Milk ejection reflex and parturition reflex

7) Diseases of basal ganglia

**WRITE BRIEFLY ON:** 5x2=10

8) Nerve action potential

9) Anti-inflammatory effect of glucocorticoids

10) Features of hypothyroidism in adults

11) Two common sleep disorders

12) Tympanic reflex

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