

**First Professional MBBS Degree Supplementary Examinations -  
February 2015****PHYSIOLOGY- PAPER II****Time: 3 Hours****Total Marks: 50**

- Answer all questions
- Draw Diagrams wherever necessary

**Long essay****(10)**

1. A 30 years female with features of increased weight, menstrual abnormalities, cold intolerance. Answer the following questions based on your knowledge in physiology :

- Name the probable condition with its cause
- What are the physiological actions of hormone related to this condition
- Mention the tests for diagnosing this condition.

**(1+7+2=10)****Short essays****(2x5=10)**

2. Functions of cerebellum  
3. Ovarian cycle

**Answer briefly****(5x3=15)**

4. Brown-sequard syndrome.  
5. Tetany  
6. Functions of testosterone  
7. Mention the stages of sleep  
8. Differences between the actions of adrenaline and nor-adrenaline on cardiovascular system

**Draw and label****(2x2½=5)**

9. Organ of corti  
10. Pain pathway from origin to termination

**Explain the physiological basis of the following****(5x2=10)**

11. Cochlear microphonics  
12. Hypermetropia  
13. Blood brain barrier  
14. Female contraceptive pill  
15. Hypoglycemic action of insulin

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