

**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
