

**First Professional MBBS Degree Examinations - August 2015****PHYSIOLOGY – Paper II****Time: 3 Hours****Total Marks: 50**

- Answer all questions
- Draw Diagrams wherever necessary

Long essay**(10)**

1. A 33 years old woman complained of weight gain. Round face, thinning of her limbs and increased bruising of skin with discoloration on her prominent abdomen. Answer the following questions based on your knowledge in physiology :
 - What is the probable endocrinological disorder
 - Explain The Metabolic Actions Of The Hormone Involved
 - Mention the major manifestations and their physiological basis

(1+4+5=10)**Short essays****(2x5 =10)**

2. Excitation –contraction coupling.
3. Gate control theory of pain

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

4. Mode of action of peptide hormone
5. Brown-sequard syndrome
6. Functions of thalamus
7. Safe period
8. Adreno-genital syndrome

Draw and label**(2x2½=5)**

9. Taste pathway
10. Multipolar Neuron

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

11. Babinski's sign in new born
12. Polyuria in diabetes mellitus
13. Phantom limb
14. Dark adaptation
15. Presbyopia
