



**Code: 104001**

**Reg. no.:** .....

First Professional MBBS Degree Supplementary Examinations, February 2013

**PHYSIOLOGY- PAPER II**

**Time: 3 Hours**

**Total Marks: 50**

- Answer all questions
- Draw Diagrams wherever necessary

**Long essay**

**(10)**

1. A 45 year old man has come to the hospital for remarkable changes in his appearance. Physical examination: tongue is enlarged, hands and feet are enlarged with spade like fingers and presence of hepatomegaly.

Fasting blood glucose is 150mg%. Fasting growth hormone level is 60ng/ml. Answer the following questions based on your knowledge in physiology :

- Name the probable condition.
- Mention the normal fasting blood glucose value.
- Which is the hormone involved in this condition and what is the defect.
- Explain the actions of the hormone involved.

**(1+1+2+6=10)**

**Short essays**

**(2x5=10)**

2. Describe the mechanism of action and regulation of aldosterone secretion.
3. Describe connections and functions of thalamus.

**Answer briefly**

**(5x3=15)**

4. Stretch reflex.
5. Hypo function of thyroid gland.
6. Functions of sertoli cells.
7. Taste buds.
8. Waves in EEG

**Draw and label**

**(2x2½ =5)**

9. Visual pathway.
10. Lateral spinothalamic tract.

**Explain the physiological basis of the following**

**(5x2=10)**

11. Trousseau's sign.
12. Macular sparing.
13. Contraceptive pills.
14. Pain in the arm during cardiac angina.
15. Left internal capsule lesion produces right hemiplegia.

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