

**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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