

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.
