

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.
