

Q.P. Code: 104001

Reg. no.:

**First Professional MBBS Degree Supplementary Examinations -
February 2016****PHYSIOLOGY- PAPER II****Time: 3 Hours****Total Marks: 50**

- Answer all questions
- Draw Diagrams wherever necessary

Long essay**(10)**

1. A young woman has puffy skin and hoarseness of voice. Her plasma TSH concentration is low. Answer the following questions based on your knowledge in physiology :

- Explain the physiological basis of her symptoms
- Describe the mechanism of action of thyroid hormones
- Explain the regulation of its synthesis
- What are its effects on nervous system

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

2. Describe connections and functions of thalamus
3. Ovarian changes during a normal menstrual cycle

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

4. Functions of middle ear
5. Absolute refractory period
6. Cyclic GMP as second messenger
7. Functions of parietal lobe of brain
8. Milk ejection reflex

Draw and label**(2x2½=5)**

9. Pathway of crude touch
10. Visual pathway

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

11. Chorea
12. Referred pain
13. Aldosterone escape phenomenon
14. Puberty
15. Bitemporal hemianopia
