

Q.P. Code: 104001

Reg. No.:

**First Professional MBBS Degree Supplementary Examinations
January 2019****Physiology – Paper II****Time: 3 Hours****Total Marks: 50**

- Answer all questions
- Draw Diagrams wherever necessary

Long essay**(10)**

1. A married female aged 25 years has history of amenorrhoea for three months. She also has early morning sickness. Answer the following questions based on your knowledge in physiology:

- What is your diagnosis
- Describe one test to confirm your diagnosis
- Describe neuroendocrine reflex in parturition and lactation
- Add a note on foeto-placental unit

(1+2+5+2)**Short essays****(2x5=10)**

2. Describe the connections and functions of cerebellum
3. Explain impedance matching occurring in the ear and describe the tympanic reflex

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

4. Referred pain
5. Law of projection
6. Functions of progesterone
7. Steps in thyroid hormone synthesis
8. Normal EEG waves

Draw and label**(2x2½=5)**

9. Visual pathway.
10. Hormonal changes during a normal menstrual cycle.

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

11. Hypothalamic disorders results in obesity
12. Sodium-potassium pump helps to maintain RMP in a neuron
13. Liver plays a major role to produce hyperglycaemia in diabetes mellitus
14. Pyramidal tract lesions produces exaggerated deep tendon reflexes
15. Deficiency of somatomedins in human beings may result in dwarfism

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