

**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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