Reg. No.: ..... Q.P. Code: 104001

## First Professional MBBS Degree Supplementary Examinations January 2019

## Physiology - Paper II

Time: 3 Hours			Total Marks: 50
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- Answer all questions
- Draw Diagrams wherever necessary

(10)

#### Long essay

- 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 the relevant changes that occur to this female
  - 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

(5x3=15)Answer briefly

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

 $(2x2\frac{1}{2}=5)$ Draw and label

- 9. Visual pathwaty
- 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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