Q.P. Code: 104001

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## First Professional MBBS Degree Examinations - August 2016 PHYSIOLOGY- PAPER II

Time: 3 Hours Total Marks: 50

- Answer all questions
- Draw Diagrams wherever necessary

Long essay (10)

- 1. A 50 years old lady was suffering from excess of sleep and tiredness, loss of appetite, hoarseness, of voice for the last six months. On examination, she had non-pitting edema, dry scaly skin and prolonged reflex time. Answer the following questions based on your knowledge in physiology:
  - What is your clinical diagnosis.
  - What will be the TSH, T<sub>3</sub> and T<sub>4</sub> levels.
  - What is the cause of low BMR.
  - How can you treat the subject.
  - What will be her resting pulse rate
  - Explain the action of thyroxine on the three metabolisms and on CNS.

(1 + 1 + 1 + 1 + 1 + 5 = 10)

Short essays (2x5=10)

- 2. Describe the formation, composition and functions of aqueous humour.
- 3. Draw the functional divisions of cerebellum. Explain the functions of these divisions with referring to their connections.

Answer briefly (5x3=15)

- 4. Functions of middle ear.
- 5. Neuromuscular junction in skeletal muscle
- 6. Role of hypothalamus in temperature regulation.
- 7. Physiological basis of pregnancy tests.
- 8. Testosterone.

Draw and label (2x2½=5)

- 9. Corticospinal tracts from it's orgin to termination
- 10. Sarcomere

## Explain the physiological basis of the following

(5x2=10)

- 11. Nystagmus is observed in vestibular diseases
- 12. A 50 years old lady finds difficulty in reading and doing close work.
- 13.Contraception by oral contraceptive pills
- 14. Cyclic AMP acts as a second messenger
- 15. Abnormal plantar reflex in neurological diseases.

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