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## First Professional MBBS Degree Supplementary Examinations

## February 2017

## PHYSIOLOGY - Paper II

Time: 3 Hours Total Marks: 50

- Answer all questions
- Draw Diagrams wherever necessary

Long essay (10)

- An elderly man was admitted to the hospital with complaints of intense central chest pain with radiation to left arm. Answer the following questions based on your knowledge in physiology:
  - What is the cause of the pain in the left arm and explain its mechanism.
  - Describe the pain pathway in detail.
  - Mention gate control theory of pain sensation (3+5+2=10)

Short essays (2x5 =10)

- 2. Effects of hypo secretion of growth hormone
- Events during neuromuscular transmission of impulse in skeletal muscle

Answer briefly (5x3=15)

- Reciprocal innervation.
- Paradoxical sleep.
- Milk ejection reflex.
- Dark adaptation
- 8. Cerebellum in voluntary activity

Draw and label (2x2½=5)

- Taste pathway
- Feedback regulation of thyroid hormone secretion

## Explain the physiological basis of the following

(5x2=10)

- 11. Renshaw cell inhibition
- Safe period
- Sterility in undescended testis
- Neuromuscular hyper excitability in tetany
- Masking in audition

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