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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)

- 1. 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)

(2x5 = 10)Short essays

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

Answer briefly (5x3=15)

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

its it sanker com Draw and label $(2x2\frac{1}{2}=5)$

- 9. Taste pathway
- 10. Feedback regulation of thyroid hormone secretion

Explain the physiological basis of the following

(5x2=10)

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