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First Professional MBBS Degree Examinations, August 2012

PHYSIOLOGY – Paper I

Time: 3 Hours **Total Marks: 50**

Answer all questions

Draw Diagrams wherever necessary

Long essay (10)

- 1. A 60year old man presented with acute retro sternal chest pain radiating to the inner aspect of left arm. The ECG showed ST segment elevation in some of the leads.
 - What is the most probable diagnosis
 - What are the other ECG changes that may occur in this condition
 - Explain the leads used in recording ECG
 - With the help of a diagram describe the waves, intervals and segments of normal ECG recording in Lead I (1+1+2+6=10)

Short essays (2x5 = 10)

- 2. Describe the mechanism of water re-absorption from the different parts of the renal tubules
- 3. Explain the neural regulation of respiration

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- 4. Peptic ulcer
- 5. Rh blood group system
- 6. Micturition reflex
- 7. Hypoxia
- 8. Hypovolemic shock

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

- 9. O₂ Hb dissociation curve
- 10. Pacemaker potential

Explain the physiological basis of the following

(5x2=10)

- 11. Clotting occurs when blood is kept in a glass tube
- 12. Steatorrhoea occurs after pancreatectomy.
- 13. Alveoli do not collapse during expiration
- 14. Anemia is seen in patients with renal disease
- 15. Edema in hypoproteinemia
