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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)

- 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)

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

Answer briefly (5x3=15)

- 4. Peptic ulcer
- Rh blood group system
- Micturition reflex
- Hypoxia
- Hypovolemic shock

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

- 9. O2 Hb dissociation curve
- Pacemaker potential

Explain the physiological basis of the following

(5x2=10)

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

