

Code: 103001

Reg. no.:

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

Answer briefly

(5x3=15)

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

Draw and label

(2x2½ =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. Steatorrhea occurs after pancreatectomy.
13. Alveoli do not collapse during expiration
14. Anemia is seen in patients with renal disease
15. Edema in hypoproteinemia
