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First Professional MBBS Degree Examinations July 2017

PHYSIOLOGY – Paper I

Time: 3 Hours

- Answer all questions
- Draw Diagrams wherever necessary

Long essay

- 1. A 60 years old man complaints of chest pain on exertion, radiating to his left arm and severe shortness of breath. Answer the following :
 - What is the most probable condition he is suffering from.
 - Mention the most common investigation done in such a patient and describe with the help of a normal diagram the changes that are expected in this
 - pratianare the functional features of coronary circulation. (1+5+4=10)

Short essays

- 2. Describe the neural control of respiration and add a note on Cheyne stokes breathing
- 3. Explain the mechanisms of water re-absorption in renal tubule

Answer	briefly
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 Peristaltic movements Primary active transport Starling's forces in capillary fluid exchange Control of gastric secretion Role of lymphocytes in immunity 		
Draw and label	(2x2½ =5)	
 Spirometric recording of lung volumes Cystometrogram in a normal human 		
Explain the physiological basis of the following	(5x2=10)	
 11. Entero-hepatic circulation 12. Resting bradycardia in athletes 13. Lung alveoli are dry normally 14. Decompression sickness 15. Megaloblasts in vitamin B₁₂ deficiency anemia 		

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Total Marks: 50

(2x5 = 10)

(5x3=15)

(10)