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First Professional MBBS Degree Supplementary Examinations, February 2014

PHYSIOLOGY - Paper I

Time: 3 Hours Total Marks: 50

- Answer all questions
- Draw Diagrams wherever necessary

(10)Long essay

- A 40 years old man was admitted to hospital with complaints of difficulty in breathing and shortness of breath following a head injury. Answer the following:
 - With the help of diagrams describe two types of periodic breathing
 - Explain the physiological basis for the changes in periodic breathing
 - Describe the role of peripheral chemo receptors in regulation of normal respiration

(3+2+5=10)

Short essays (2x5 = 10)

- Discuss the factors affecting cardiac output and add a note on Brainbridge reflex
- Describe the counter current multiplier in the kidney

Answer briefly (5x3=15)

- Hypoxic hypoxia
- Proteolytic pancreatic enzymes
- Auto regulation of glomerlular filtration rate
- First and second heart sounds
- Gastric emptying time

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

- 9. Left Ventricular pressure changes recorded during a normal cardiac cycle
- Effect of pH on the oxygen hemoglobin dissociation curve

Explain the physiological basis of the following

(5x2=10)

- 11.Oxygen debt
- Receptive relaxation
- Prolonged standing results in fainting attacks
- Prolonged action potential in cardiac muscle
- Protective effect of vaccination

