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First Professional MBBS Degree Examinations, August 2014

## PHYSIOLOGY – Paper I

Time: 3 Hours Total Marks: 50

- Answer all questions
- Draw Diagrams wherever necessary

Long essay (10)

- Oxygen delivery to tissues will be greatly reduced in a patient with carbon monoxide poisoning. Answer the following:
  - What is the physiological basis for reduced oxygen delivery to the tissues.
  - Describe the functional significance of oxygen-hemoglobin dissociation curve
  - · Mention the factors which will shift oxygen dissociation curve to right and left

 $(2\frac{1}{2}+5+2\frac{1}{2}=10)$ 

Short essays (2x5 =10)

- Regulation of pancreatic exocrine secretion
- Jugular venous pulse

Answer briefly (5x3=15)

- 4. Venous return
- Fetal hemoglobin
- Periodic breathing
- Post prandial alkaline tide
- Micturition reflex

Draw and label (2x2½ =5)

- Draw and label diagram of lung volumes and capacities
- Draw ECG recorded in lead IN

## Explain the physiological basis of the following

(5x2=10)

- Splay in renal glucose re-absorption curve
- 12. Dicumarol as an anticoagulant
- 13. Leucocytosis
- 14. Dead space
- Tubulo glomerular feedback

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