

Q.P. Code: 103001

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)**

1. 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)**

2. Regulation of pancreatic exocrine secretion
3. Jugular venous pulse

Answer briefly**(5x3=15)**

4. Venous return
5. Fetal hemoglobin
6. Periodic breathing
7. Post prandial alkaline tide
8. Micturition reflex

Draw and label**(2x2½ =5)**

9. Draw and label diagram of lung volumes and capacities
10. Draw ECG recorded in lead II

Explain the physiological basis of the following**(5x2=10)**

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