

Q.P. Code: 103001

Reg. no.:

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

(2½+5+2½=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
