

**Q.P. Code: 103001**

**Reg. no.: .....**

**First Professional MBBS Degree Supplementary Examinations -  
February 2015**

**PHYSIOLOGY – Paper I**

**Time: 3 Hours**

**Total Marks: 50**

- *Answer all questions*
- *Draw Diagrams wherever necessary*

**Long essay**

**(10)**

1. A 45 years old man is having high blood pressure. Answer the following
  - What are the probable causes of high blood pressure.
  - Mention the factors maintaining blood pressure
  - Describe the neural regulation of blood pressure.

**(2+4+4=10)**

**Short essays**

**(2x5 =10)**

2. Stages of deglutition
3. Counter current mechanism

**Answer briefly**

**(5x3=15)**

4. Maturation factors of RBC
5. Small intestinal movements
6. Lung compliance
7. Filtration pressure in glomerulus
8. End – diastolic ventricular volume

**Draw and label**

**(2x2½ =5)**

9. Respiratory membrane
10. Cardiac cycle

**Explain the physiological basis of the following**

**(5x2=10)**

11. Idiopathic thrombocytopenic purpura
12. Dyspnoeic index
13. Mass peristalsis
14. Chloride shift
15. Tubular maximum for glucose.