



**Q.P. Code: 103001**

**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 and explain the determinants of 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 in concentration of urine

**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. Increased incidence of Tuberculosis in the apex of the lung
13. Mass peristalsis
14. Chloride shift
15. Tubular maximum for glucose.

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