



**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.
