

First BHMS Degree Examinations November 2017

**Physiology & Biochemistry I
(2015 scheme)**

Time: 3 hrs

Max marks: 100

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

Long Essay (2x15=30)

1. Describe the pathways of coagulation and describe haemophilia in detail (8+7)
2. Define cardiac cycle. Describe the events of the cardiac cycle including reference to the heart sounds. (2+10+3)

Short Essay (5x8=40)

3. Effects of mismatched blood transfusion (5+3)
4. Describe the transport of carbon dioxide in blood. What is Haldane effect (6+2)
5. Describe the chemical regulation of respiration. What is Hering–Breuer reflex (6+2)
6. Define nephron. Describe its parts and their functions. (2+2+4)
7. Describe the structure and functions of skin. (3+5)

Short notes (10x3=30)

8. Active transport
9. Resting membrane potential
10. Erythrocyte sedimentation rate
11. P wave in ECG
12. Peripheral resistance of blood vessels
13. Forced expiratory volume (FEV1)
14. Acidification of urine
15. Loop of henle
16. Rheobase and chronaxie
17. Myasthenia gravis
