

First BHMS Degree Supplementary Examinations March 2019

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 types, morphology and functions of leukocytes. Add a note on immunity and its types. (2+6+3+4)
2. Define cardiac output. Describe the variations and factors regulating cardiac output. Add a note on Fick's principle. (2+4+6+3)

Short Essay

(5x8=40)

3. Describe the synthesis and functions of haemoglobin.
4. Describe the mechanism of glomerular filtration and its regulation.
5. Describe the heat balance and regulation of body temperature.
6. Describe the nervous regulation of respiration.
7. Describe the various lung capacities

Short notes

(10x3=30)

8. Active transport
9. Importance of sodium – potassium pump.
10. Peculiarities of renal circulations.
11. Reabsorption of glucose.
12. Functions of plasma proteins.
13. Histoxic hypoxia
14. Sinus arrhythmia.
15. Foetal circulations.
16. Fatigue and tetanus.
17. Resting membrane potential
